

Appendix S

DNAPL Assessment

Appendix S1

Kueper-Davies Method DNAPL Evaluation Data and Calculations

**DYE TEST RESULTS - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3142.19	5979.52	-2.62	WMUA-34	positive dye test	1
3142.19	5979.52	-3.12	WMUA-34	positive dye test	1
3142.19	5979.52	-3.62	WMUA-34	positive dye test	1
3460.98	5958.26	-0.23	WMUA-40	positive dye test	1
3460.98	5958.26	-1.23	WMUA-40	positive dye test	1
3460.98	5958.26	-2.23	WMUA-40	positive dye test	1
3403.27	5903.8	-2.65	WMUA-41	positive dye test	1
3403.27	5903.8	3.35	WMUA-41	positive dye test	1
3403.27	5903.8	-3.65	WMUA-41	positive dye test	1
3403.27	5903.8	-4.65	WMUA-41	positive dye test	1
3403.27	5903.8	-6.15	WMUA-41	positive dye test	1
3656.53	5856.41	-6.23	WMUG-01	positive dye test	1
3645.63	5782.75	-5.92	WMUG-03	positive dye test	1
3645.63	5782.75	-6.92	WMUG-03	positive dye test	1
3705.51	5808.61	-5.07	WMUG-06	positive dye test	1
3705.51	5808.61	-6.07	WMUG-06	positive dye test	1
3705.51	5808.61	-7.07	WMUG-06	positive dye test	1
3757.49	5706.63	-4.57	WMUG-10	positive dye test	1
3757.49	5706.63	-7.07	WMUG-10	positive dye test	1
3635.3	5939.96	-3.46	WMUG-12	positive dye test	1
3635.3	5939.96	-5.46	WMUG-12	positive dye test	1
3704.83	6052.05	-2.67	WMUR-01	positive dye test	1
3704.83	6052.05	-4.17	WMUR-01	positive dye test	1
3704.83	6052.05	-4.67	WMUR-01	positive dye test	1
3652.9	6052.45	-0.12	WMUR-09	positive dye test	1
3652.9	6052.45	-1.12	WMUR-09	positive dye test	1
3652.9	6052.45	1.88	WMUR-09	positive dye test	1
3652.9	6052.45	-7.12	WMUR-09	positive dye test	1
3403.27	5903.8	-10.65	WMUA-41	positive dye test	1
3645.63	5782.75	-17.42	WMUG-03	positive dye test	1
3757.49	5706.63	-8.07	WMUG-10	positive dye test	1
3863.26	5719.47	-12.01	WMUG-14	positive dye test	1
3704.83	6052.05	-7.67	WMUR-01	positive dye test	1
3704.83	6052.05	-10.17	WMUR-01	positive dye test	1
3704.83	6052.05	-11.17	WMUR-01	positive dye test	1
3704.83	6052.05	-11.67	WMUR-01	positive dye test	1
3704.83	6052.05	-13.17	WMUR-01	positive dye test	1
3944.78	6070.07	-11.54	WMUR-05/83C	positive dye test	1
3652.9	6052.45	-7.62	WMUR-09	positive dye test	1
3652.9	6052.45	-9.62	WMUR-09	positive dye test	1
3652.9	6052.45	-12.62	WMUR-09	positive dye test	1
3652.9	6052.45	-17.62	WMUR-09	positive dye test	1
3704.83	6052.05	-87.67	WMUR-01	positive dye test	1
3746.63	6097.42	-99.72	WMUR-03	positive dye test	1
3695.44	6095.28	-99.14	WMUR-04	positive dye test	1
3898.58	5965.16	-99.17	WMUR-08	positive dye test	1
3652.9	6052.45	-79.62	WMUR-09	positive dye test	1
3652.9	6052.45	-82.12	WMUR-09	positive dye test	1
3746.63	6097.42	-100.22	WMUR-03	positive dye test	1
3835.05	6293.03	-108.31	WMUR-10	positive dye test	1

**DYE TEST RESULTS - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3870.95	6046.9	-109.14	WMUR-07	positive dye test	1
3870.95	6046.9	-112.14	WMUR-07	positive dye test	1
3835.05	6293.03	-114.61	WMUR-10	positive dye test	1
3909.7	6402.7	-125.81	WMUR-06/94C	positive dye test	1
3835.05	6293.03	-126.11	WMUR-10	positive dye test	1
3909.7	6402.7	-126.21	WMUR-06/94C	positive dye test	1
3835.05	6293.03	-135.61	WMUR-10	positive dye test	1
3835.05	6293.03	-136.11	WMUR-10	positive dye test	1
3707.58	6177.9	1.63	SB-A	positive dye test	1
3799.93	6470.18	-130.7	SB-B-DEEP	positive dye test	1
3799.93	6470.18	-133.2	SB-B-DEEP	positive dye test	1
3799.93	6470.18	-135.7	SB-B-DEEP	positive dye test	1
3799.93	6470.18	-138.2	SB-B-DEEP	positive dye test	1
3799.93	6470.18	-140.7	SB-B-DEEP	positive dye test	1
3603.02	6586.62	-126.19	MW-EXT-9-INT	positive dye test	1
3603.02	6586.62	-131.19	MW-EXT-9-INT	positive dye test	1

APPENDIX S

SOIL ABOVE PCE SATURATION THRESHOLD - KUEPER-DAVIES DNAPL EVALUATION
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3757.49	5706.63	-7.07	WMUG-10	Soil above PCE Saturation Threshold	2
3835.05	6293.03	-126.11	WMUR-10	Soil above PCE Saturation Threshold	2
3909.7	6402.7	-126.21	WMUR-06/94C	Soil above PCE Saturation Threshold	2

APPENDIX S

SOIL ABOVE TCE SATURATION THRESHOLD - KUEPER-DAVIES DNAPL EVALUATION
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3757.49	5706.63	-7.07	WMUG-10	Soil above TCE Saturation Threshold	3
3870.95	6046.9	-109.04	WMUR-07	Soil above TCE Saturation Threshold	3
3835.05	6293.03	-126.11	WMUR-10	Soil above TCE Saturation Threshold	3
3909.7	6402.7	-126.21	WMUR-06/94C	Soil above TCE Saturation Threshold	3

APPENDIX S

STAINING AND ODOR - KUEPER-DAVIES DNAPL EVALUATION
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3490.4	5797.78	-68.07	WMUG-04/21C	Staining and Odor	4
3490.4	5797.78	-73.57	WMUG-04/21C	Staining and Odor	4
3490.4	5797.78	-76.07	WMUG-04/21C	Staining and Odor	4
3490.4	5797.78	-82.57	WMUG-04/21C	Staining and Odor	4

APPENDIX S

ODOR AND HIGH FID - KUEPER-DAVIES DNAPL EVALUATION
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3596.13	5826.14	-2.68	WMUG-02	Odor and high FID	5
3635.3	5939.96	2.04	WMUG-12	Odor and high FID	5
3212.16	5809.44	-25.33	89C	Odor and high FID	5
3944.78	6070.07	-77.54	WMUR-05/83C	Odor and high FID	5
3944.78	6070.07	-82.29	WMUR-05/83C	Odor and high FID	5
3944.78	6070.07	-129.29	WMUR-05/83C	Odor and high FID	5
3909.7	6402.7	-129.71	WMUR-06/94C	Odor and high FID	5
3909.7	6402.7	-140.21	WMUR-06/94C	Odor and high FID	5

APPENDIX S

**SOIL ABOVE PARTITIONING THRESHOLD - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3736.82	6790.48	-154.59	H-01	Soil Above Partitioning Threshold	6
3736.82	6790.48	-148.59	H-01	Soil Above Partitioning Threshold	6
3799.93	6470.18	-140.45	SB-B-DEEP	Soil Above Partitioning Threshold	6
3909.7	6402.7	-139.71	WMUR-06/94C	Soil Above Partitioning Threshold	6
3799.93	6470.18	-138.95	SB-B-DEEP	Soil Above Partitioning Threshold	6
3799.93	6470.18	-136.95	SB-B-DEEP	Soil Above Partitioning Threshold	6
3606.65	6586.76	-136.42	EXT-9-Deep	Soil Above Partitioning Threshold	6
3835.05	6293.03	-135.91	WMUR-10	Soil Above Partitioning Threshold	6
3799.93	6470.18	-134.95	SB-B-DEEP	Soil Above Partitioning Threshold	6
3799.93	6470.18	-134.45	SB-B-DEEP	Soil Above Partitioning Threshold	6
3736.82	6790.48	-134.09	H-01	Soil Above Partitioning Threshold	6
3799.93	6470.18	-133.45	SB-B-DEEP	Soil Above Partitioning Threshold	6
3606.65	6586.76	-132.42	EXT-9-Deep	Soil Above Partitioning Threshold	6
3909.7	6402.7	-131.21	WMUR-06/94C	Soil Above Partitioning Threshold	6
3799.93	6470.18	-130.45	SB-B-DEEP	Soil Above Partitioning Threshold	6
3603.02	6586.62	-130.44	EXT-9-Intermediate	Soil Above Partitioning Threshold	6
3736.82	6790.48	-129.09	H-01	Soil Above Partitioning Threshold	6
3799.93	6470.18	-128.45	SB-B-DEEP	Soil Above Partitioning Threshold	6
3909.7	6402.7	-127.31	WMUR-06/94C	Soil Above Partitioning Threshold	6
3909.7	6402.7	-126.21	WMUR-06/94C	Soil Above Partitioning Threshold	6
3835.05	6293.03	-126.11	WMUR-10	Soil Above Partitioning Threshold	6
3603.02	6586.62	-125.94	EXT-9-Intermediate	Soil Above Partitioning Threshold	6
3835.05	6293.03	-123.11	WMUR-10	Soil Above Partitioning Threshold	6
3606.65	6586.76	-122.92	EXT-9-Deep	Soil Above Partitioning Threshold	6
3835.05	6293.03	-116.61	WMUR-10	Soil Above Partitioning Threshold	6
3606.65	6586.76	-114.92	EXT-9-Deep	Soil Above Partitioning Threshold	6
3835.05	6293.03	-114.61	WMUR-10	Soil Above Partitioning Threshold	6
3870.95	6046.9	-113.14	WMUR-07	Soil Above Partitioning Threshold	6
3870.95	6046.9	-112.14	WMUR-07	Soil Above Partitioning Threshold	6
3707.58	6177.9	-111.62	A	Soil Above Partitioning Threshold	6
3870.95	6046.9	-110.14	WMUR-07	Soil Above Partitioning Threshold	6
3944.83	6064.23	-109.59	EXT-7	Soil Above Partitioning Threshold	6
3606.8	6581.09	-109.41	EXT-9-Shallow	Soil Above Partitioning Threshold	6
3870.95	6046.9	-109.04	WMUR-07	Soil Above Partitioning Threshold	6
3944.78	6070.07	-107.54	WMUR-05/83C	Soil Above Partitioning Threshold	6
3746.63	6097.42	-103.22	WMUR-03	Soil Above Partitioning Threshold	6
3746.63	6097.42	-100.02	WMUR-03	Soil Above Partitioning Threshold	6
3695.44	6095.28	-99.14	WMUR-04	Soil Above Partitioning Threshold	6
3898.58	5965.16	-99.07	WMUR-08	Soil Above Partitioning Threshold	6
3704.83	6052.05	-91.17	WMUR-01	Soil Above Partitioning Threshold	6
3704.83	6052.05	-87.67	WMUR-01	Soil Above Partitioning Threshold	6
3870.95	6046.9	-87.14	WMUR-07	Soil Above Partitioning Threshold	6
3652.9	6052.45	-84.62	WMUR-09	Soil Above Partitioning Threshold	6
3652.9	6052.45	-82.12	WMUR-09	Soil Above Partitioning Threshold	6
3944.83	6064.23	-80.09	EXT-7	Soil Above Partitioning Threshold	6
3652.9	6052.45	-79.62	WMUR-09	Soil Above Partitioning Threshold	6
3944.78	6070.07	-79.54	WMUR-05/83C	Soil Above Partitioning Threshold	6
3944.78	6070.07	-77.54	WMUR-05/83C	Soil Above Partitioning Threshold	6
3652.9	6052.45	-76.62	WMUR-09	Soil Above Partitioning Threshold	6
4046.69	5711.89	-75.82	PT-15A	Soil Above Partitioning Threshold	6
3652.9	6052.45	-75.62	WMUR-09	Soil Above Partitioning Threshold	6

APPENDIX S

**SOIL ABOVE PARTITIONING THRESHOLD - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4179.64	6048.35	-75.12	5106-1	Soil Above Partitioning Threshold	6
3652.9	6052.45	-72.12	WMUR-09	Soil Above Partitioning Threshold	6
3652.9	6052.45	-60.12	WMUR-09	Soil Above Partitioning Threshold	6
4055.44	5868.4	-54.2	PT-13	Soil Above Partitioning Threshold	6
4121.89	5664.5	-52.6	PT-7	Soil Above Partitioning Threshold	6
4055.44	5868.4	-49.2	PT-13	Soil Above Partitioning Threshold	6
3695.44	6095.28	-46.64	WMUR-04	Soil Above Partitioning Threshold	6
3552.43	5965.84	-44.4	WMUA-32	Soil Above Partitioning Threshold	6
4118.02	5519.78	-44.07	5106 T5-450	Soil Above Partitioning Threshold	6
4088.88	6054.85	-43.02	5106 T1-50	Soil Above Partitioning Threshold	6
4138.36	5905.95	-42.82	5106 T4-100	Soil Above Partitioning Threshold	6
4118.02	5519.78	-42.07	5106 T5-450	Soil Above Partitioning Threshold	6
4062.66	5946.55	-40.97	5106 T5-50	Soil Above Partitioning Threshold	6
4135.88	6142.19	-40.67	5106 T1-100	Soil Above Partitioning Threshold	6
3225.01	5835.35	-40.4	WMUA-26	Soil Above Partitioning Threshold	6
4118.02	5519.78	-39.77	5106 T5-450	Soil Above Partitioning Threshold	6
4045.35	5877.97	-39.23	PT-13A	Soil Above Partitioning Threshold	6
3635.3	5939.96	-37.46	WMUG-12	Soil Above Partitioning Threshold	6
4083.13	5756.98	-37.37	5106 T5-250	Soil Above Partitioning Threshold	6
4053.48	5715.7	-36.96	PT-15	Soil Above Partitioning Threshold	6
4053.48	5715.7	-32.96	PT-15	Soil Above Partitioning Threshold	6
3709.31	5938.88	-32.76	WMUG-09	Soil Above Partitioning Threshold	6
4092.11	5830.69	-32.72	5106 T5-175	Soil Above Partitioning Threshold	6
3727.84	5863.44	-31.33	WMUG-07	Soil Above Partitioning Threshold	6
3635.3	5939.96	-30.96	WMUG-12	Soil Above Partitioning Threshold	6
3705.51	5808.61	-30.57	WMUG-06	Soil Above Partitioning Threshold	6
3695.44	6095.28	-28.54	WMUR-04	Soil Above Partitioning Threshold	6
3656.53	5856.41	-24.23	WMUG-01	Soil Above Partitioning Threshold	6
3596.13	5826.14	-23.68	WMUG-02	Soil Above Partitioning Threshold	6
3727.84	5863.44	-19.83	WMUG-07	Soil Above Partitioning Threshold	6
3704.83	6052.05	-19.67	WMUR-01	Soil Above Partitioning Threshold	6
3645.63	5782.75	-18.12	WMUG-03	Soil Above Partitioning Threshold	6
3652.9	6052.45	-17.62	WMUR-09	Soil Above Partitioning Threshold	6
3645.63	5782.75	-17.42	WMUG-03	Soil Above Partitioning Threshold	6
3704.83	6052.05	-16.17	WMUR-01	Soil Above Partitioning Threshold	6
3635.3	5939.96	-15.46	WMUG-12	Soil Above Partitioning Threshold	6
3656.53	5856.41	-13.53	WMUG-01	Soil Above Partitioning Threshold	6
3652.9	6052.45	-12.82	WMUR-09	Soil Above Partitioning Threshold	6
3944.78	6070.07	-12.54	WMUR-05/83C	Soil Above Partitioning Threshold	6
3704.83	6052.05	-12.17	WMUR-01	Soil Above Partitioning Threshold	6
3799.74	5967.86	-11.85	WMUG-08	Soil Above Partitioning Threshold	6
3944.78	6070.07	-11.54	WMUR-05/83C	Soil Above Partitioning Threshold	6
3704.83	6052.05	-10.17	WMUR-01	Soil Above Partitioning Threshold	6
3635.3	5939.96	-9.96	WMUG-12	Soil Above Partitioning Threshold	6
3652.9	6052.45	-9.62	WMUR-09	Soil Above Partitioning Threshold	6
3705.51	5808.61	-9.57	WMUG-06	Soil Above Partitioning Threshold	6
3757.49	5706.63	-9.07	WMUG-10	Soil Above Partitioning Threshold	6
3695.44	6095.28	-8.64	WMUR-04	Soil Above Partitioning Threshold	6
3656.53	5856.41	-8.23	WMUG-01	Soil Above Partitioning Threshold	6
3705.51	5808.61	-8.07	WMUG-06	Soil Above Partitioning Threshold	6
3248.86	5858.49	-7.9	WMUA-13	Soil Above Partitioning Threshold	6

APPENDIX S

**SOIL ABOVE PARTITIONING THRESHOLD - KUEPER-DAVIES DNAPL EVALUATION
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3704.83	6052.05	-7.67	WMUR-01	Soil Above Partitioning Threshold	6
3983.92	5789.81	-7.65	WMUH-1	Soil Above Partitioning Threshold	6
3652.9	6052.45	-7.62	WMUR-09	Soil Above Partitioning Threshold	6
3177.76	5937.94	-7.4	WMUA-14	Soil Above Partitioning Threshold	6
3615.52	5715.46	-7.38	WMUG-11	Soil Above Partitioning Threshold	6
3757.49	5706.63	-7.07	WMUG-10	Soil Above Partitioning Threshold	6
3645.63	5782.75	-6.92	WMUG-03	Soil Above Partitioning Threshold	6
3635.3	5939.96	-6.66	WMUG-12	Soil Above Partitioning Threshold	6
3356.97	5861.96	-6.4	WMUA-12	Soil Above Partitioning Threshold	6
3799.74	5967.86	-6.35	WMUG-08	Soil Above Partitioning Threshold	6
3709.31	5938.88	-6.26	WMUG-09	Soil Above Partitioning Threshold	6
3460.98	5958.26	-6.23	WMUA-40	Soil Above Partitioning Threshold	6
3656.53	5856.41	-6.23	WMUG-01	Soil Above Partitioning Threshold	6
3403.27	5903.8	-6.15	WMUA-41	Soil Above Partitioning Threshold	6
3705.51	5808.61	-6.07	WMUG-06	Soil Above Partitioning Threshold	6
3645.63	5782.75	-5.92	WMUG-03	Soil Above Partitioning Threshold	6
3635.3	5939.96	-5.46	WMUG-12	Soil Above Partitioning Threshold	6
3695.44	6095.28	-5.14	WMUR-04	Soil Above Partitioning Threshold	6
3142.19	5979.52	-5.12	WMUA-34	Soil Above Partitioning Threshold	6
3645.63	5782.75	-4.92	WMUG-03	Soil Above Partitioning Threshold	6
3757.49	5706.63	-4.57	WMUG-10	Soil Above Partitioning Threshold	6
3709.31	5938.88	-4.56	WMUG-09	Soil Above Partitioning Threshold	6
3704.83	6052.05	-4.17	WMUR-01	Soil Above Partitioning Threshold	6
3705.51	5808.61	-4.07	WMUG-06	Soil Above Partitioning Threshold	6
3248.86	5858.49	-3.9	WMUA-13	Soil Above Partitioning Threshold	6
3403.27	5903.8	-3.65	WMUA-41	Soil Above Partitioning Threshold	6
3263.76	6010.28	-3.4	WMUA-15	Soil Above Partitioning Threshold	6
3142.19	5979.52	-3.12	WMUA-34	Soil Above Partitioning Threshold	6
3760.84	6052.88	-2.85	WMUR-02	Soil Above Partitioning Threshold	6
3704.83	6052.05	-2.67	WMUR-01	Soil Above Partitioning Threshold	6
3435.52	5925.73	-2.4	WMUA-8	Soil Above Partitioning Threshold	6
3460.98	5958.26	-1.13	WMUA-40	Soil Above Partitioning Threshold	6
3707.58	6177.9	-1.12	A	Soil Above Partitioning Threshold	6
3635.3	5939.96	-0.46	WMUG-12	Soil Above Partitioning Threshold	6
3212.84	5951.1	-0.36	WMUA-36	Soil Above Partitioning Threshold	6

APPENDIX S

**GROUNDWATER ABOVE PARTITIONING THRESHOLD - 10% - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4055.44	5868.4	-55.45	PT-13	GW Above Partitioning Threshold - 10%	7
4053.48	5715.7	-36.96	PT-15	GW Above Partitioning Threshold - 10%	7
4084.86	5733.05	-28.33413147	PZ-7	GW Above Partitioning Threshold - 10%	7
4097.72	5836.81	-58.62	HYD-4	GW Above Partitioning Threshold - 10%	7
4179.64	6048.35	-75.12	5106-1	GW Above Partitioning Threshold - 10%	7
4179.64	6048.35	-80.12	5106-1	GW Above Partitioning Threshold - 10%	7
4179.64	6048.35	-105.12	5106-1	GW Above Partitioning Threshold - 10%	7
4179.64	6048.35	-100.12	5106-1	GW Above Partitioning Threshold - 10%	7
4043.27	6012.37	-100.2200015	PT-12A	GW Above Partitioning Threshold - 10%	7
4043.27	6012.37	-110.2200015	PT-12A	GW Above Partitioning Threshold - 10%	7
4256.67	6044.99	-95.92	5106-9	GW Above Partitioning Threshold - 10%	7
4045.35	5877.97	-89.83000153	PT-13A	GW Above Partitioning Threshold - 10%	7
4045.35	5877.97	-39.73000019	PT-13A	GW Above Partitioning Threshold - 10%	7
4118.59	5990.64	-96.42	5106-2	GW Above Partitioning Threshold - 10%	7
4118.59	5990.64	-86.42	5106-2	GW Above Partitioning Threshold - 10%	7
4118.59	5990.64	-76.42	5106-2	GW Above Partitioning Threshold - 10%	7
4118.59	5990.64	-116.42	5106-2	GW Above Partitioning Threshold - 10%	7
4136.54	6357.39	-107.52	Pier25-12	GW Above Partitioning Threshold - 10%	7
4136.54	6357.39	-127.52	Pier25-12	GW Above Partitioning Threshold - 10%	7
4140.31	6196.79	-110.62	Pier25-13	GW Above Partitioning Threshold - 10%	7
3733.24	5946.59	-67.3	4-83R	GW Above Partitioning Threshold - 10%	7
3553.48	5802.92	-9.5	21-25R	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-7.9	SP-5	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-12.9	SP-5	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-22.9	SP-5	GW Above Partitioning Threshold - 10%	7
3737.49	5840.39	-12.9	SP-6	GW Above Partitioning Threshold - 10%	7
3737.49	5840.39	-22.9	SP-6	GW Above Partitioning Threshold - 10%	7
3737.49	5840.39	-37.9	SP-6	GW Above Partitioning Threshold - 10%	7
3737.49	5840.39	-67.9	SP-6	GW Above Partitioning Threshold - 10%	7
3737.49	5840.39	-47.9	SP-6	GW Above Partitioning Threshold - 10%	7
3737.49	5840.39	-87.9	SP-6	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-67.9	SP-5	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-47.9	SP-5	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-57.9	SP-5	GW Above Partitioning Threshold - 10%	7
3620.81	5840.62	-87.9	SP-5	GW Above Partitioning Threshold - 10%	7
3766.32	5794.47	-12.9	SP-3	GW Above Partitioning Threshold - 10%	7
3766.32	5794.47	-32.9	SP-3	GW Above Partitioning Threshold - 10%	7
3766.32	5794.47	-22.9	SP-3	GW Above Partitioning Threshold - 10%	7
3623.15	5675.71	-7.9	SP-4	GW Above Partitioning Threshold - 10%	7
3891.31	5942.9	-97.9	SP-8	GW Above Partitioning Threshold - 10%	7
3414.67	5861.78	-6.4	WMUA-11	GW Above Partitioning Threshold - 10%	7
3356.97	5861.96	-6.9	WMUA-12	GW Above Partitioning Threshold - 10%	7
3486.11	5901.23	-7.4	WMUA-19	GW Above Partitioning Threshold - 10%	7
3486.64	5981.12	-27.4	WMUA-18	GW Above Partitioning Threshold - 10%	7
3263.76	6010.28	-3.4	WMUA-15	GW Above Partitioning Threshold - 10%	7
3486.64	5981.12	-15.4	WMUA-18	GW Above Partitioning Threshold - 10%	7
3263.76	6010.28	-12.4	WMUA-15	GW Above Partitioning Threshold - 10%	7
3177.76	5937.94	-7.4	WMUA-14	GW Above Partitioning Threshold - 10%	7
3177.76	5937.94	-10.4	WMUA-14	GW Above Partitioning Threshold - 10%	7
3377.02	6117.11	-0.32	HC-N6-1	GW Above Partitioning Threshold - 10%	7
3377.6	6957.62	-154.02	77C-160	GW Above Partitioning Threshold - 10%	7
3724.57	6088.23	-11.6	10-24	GW Above Partitioning Threshold - 10%	7
3736.82	6790.48	-141.59	H-01	GW Above Partitioning Threshold - 10%	7

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3736.82	6790.48	-151.59	H-01	GW Above Partitioning Threshold - 10%	7
3602.81	6581.91	-100.43	EXT-9	GW Above Partitioning Threshold - 10%	7
3602.81	6581.91	-150.43	EXT-9	GW Above Partitioning Threshold - 10%	7
3799.93	6470.18	-142.45	SB-B-DEEP	GW Above Partitioning Threshold - 10%	7
3606.8	6581.09	-107.91	EXT-9-Shallow	GW Above Partitioning Threshold - 10%	7

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**GROUNDWATER ABOVE PARTITIONING THRESHOLD - 1% - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3742.12	5945.9	-30.6	4-45R	GW Above Partitioning Threshold - 1%	8
4055.44	5868.4	-77.95	PT-13	GW Above Partitioning Threshold - 1%	8
4005.68	5822.2	-22.96	PT-14	GW Above Partitioning Threshold - 1%	8
4058.9	5558.28	-48.96	PT-17	GW Above Partitioning Threshold - 1%	8
4100.56	6669.14	-119.02	Pier25-2	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-90.61	HYD-3	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-100.61	HYD-3	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-110.61	HYD-3	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-120.61	HYD-3	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-130.61	HYD-3	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-140.61	HYD-3	GW Above Partitioning Threshold - 1%	8
4177.68	6671.43	-99.02000153	Pier25-6	GW Above Partitioning Threshold - 1%	8
4177.68	6671.43	-109.0200015	Pier25-6	GW Above Partitioning Threshold - 1%	8
4251.95	6672.35	-87.92	Pier25-8	GW Above Partitioning Threshold - 1%	8
4099.37	6507.91	-113.62	HYD-2	GW Above Partitioning Threshold - 1%	8
4099.37	6507.91	-133.62	HYD-2	GW Above Partitioning Threshold - 1%	8
4099.37	6507.91	-123.62	HYD-2	GW Above Partitioning Threshold - 1%	8
4151.01	6509.2	-88.12	HYD-1	GW Above Partitioning Threshold - 1%	8
4151.01	6509.2	-118.12	HYD-1	GW Above Partitioning Threshold - 1%	8
4151.01	6509.2	-128.12	HYD-1	GW Above Partitioning Threshold - 1%	8
4151.01	6509.2	-108.12	HYD-1	GW Above Partitioning Threshold - 1%	8
4181.81	5613.39	-63.92	5106-5	GW Above Partitioning Threshold - 1%	8
4153.61	5838.03	-63.82	5106-3	GW Above Partitioning Threshold - 1%	8
4153.61	5838.03	-53.82	5106-3	GW Above Partitioning Threshold - 1%	8
4153.61	5838.03	-58.82	5106-3	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-26.32	EA-1	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-14.32	EA-1	GW Above Partitioning Threshold - 1%	8
4097.72	5836.81	-68.62	HYD-4	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-31.32	EA-1	GW Above Partitioning Threshold - 1%	8
4097.72	5836.81	-78.62	HYD-4	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-41.32	EA-1	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-36.32	EA-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-56.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-95.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-90.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-65.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-85.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-60.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-70.12	5106-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-115.12	5106-1	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-96.32	EA-1	GW Above Partitioning Threshold - 1%	8
4179.64	6048.35	-110.12	5106-1	GW Above Partitioning Threshold - 1%	8
3971.43	5918.73	-81.32	EA-1	GW Above Partitioning Threshold - 1%	8
4328.35	6673.94	-77.7	Pier25-11	GW Above Partitioning Threshold - 1%	8
3974.44	5780.85	-4.82	EA-2	GW Above Partitioning Threshold - 1%	8
3974.44	5780.85	-14.82	EA-2	GW Above Partitioning Threshold - 1%	8
4043.27	6012.37	-120.2200015	PT-12A	GW Above Partitioning Threshold - 1%	8
4252.04	6590.31	-88.99	Pier25-10	GW Above Partitioning Threshold - 1%	8
4252.04	6590.31	-108.99	Pier25-10	GW Above Partitioning Threshold - 1%	8
4252.04	6590.31	-98.99	Pier25-10	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-65.92	5106-9	GW Above Partitioning Threshold - 1%	8

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4256.67	6044.99	-55.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-70.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-80.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-60.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-85.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-90.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-100.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-50.92	5106-9	GW Above Partitioning Threshold - 1%	8
4256.67	6044.99	-115.92	5106-9	GW Above Partitioning Threshold - 1%	8
4254.07	5840.65	-71.72	5106-10	GW Above Partitioning Threshold - 1%	8
4045.35	5877.97	-99.83000153	PT-13A	GW Above Partitioning Threshold - 1%	8
4045.35	5877.97	-49.72999924	PT-13A	GW Above Partitioning Threshold - 1%	8
4046.69	5711.89	-85.82	PT-15A	GW Above Partitioning Threshold - 1%	8
4046.69	5711.89	-75.82	PT-15A	GW Above Partitioning Threshold - 1%	8
4045.35	5877.97	-109.8300015	PT-13A	GW Above Partitioning Threshold - 1%	8
4046.69	5711.89	-131.82	PT-15A	GW Above Partitioning Threshold - 1%	8
4046.69	5711.89	-121.82	PT-15A	GW Above Partitioning Threshold - 1%	8
4251.1	6356.95	-89.02000076	Pier25-17	GW Above Partitioning Threshold - 1%	8
4251.1	6356.95	-109.0199969	Pier25-17	GW Above Partitioning Threshold - 1%	8
4251.1	6356.95	-99.02000076	Pier25-17	GW Above Partitioning Threshold - 1%	8
4251.1	6356.95	-119.0199969	Pier25-17	GW Above Partitioning Threshold - 1%	8
4251.1	6356.95	-79.02000076	Pier25-17	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-74.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-59.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-79.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-69.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-64.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-54.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-84.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-89.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-109.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-104.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-99.52	5106-13	GW Above Partitioning Threshold - 1%	8
4331.66	6046.61	-94.52	5106-13	GW Above Partitioning Threshold - 1%	8
4410.74	6652.1	-67.72	Pier25-15	GW Above Partitioning Threshold - 1%	8
4329.78	5842.96	-61.82	5106-14	GW Above Partitioning Threshold - 1%	8
4329.78	5842.96	-66.82	5106-14	GW Above Partitioning Threshold - 1%	8
4329.78	5842.96	-71.82	5106-14	GW Above Partitioning Threshold - 1%	8
4415.64	6517.66	-67.72	Pier25-20	GW Above Partitioning Threshold - 1%	8
4415.64	6517.66	-77.72	Pier25-20	GW Above Partitioning Threshold - 1%	8
4328.24	6360.66	-107.0199985	Pier25-19	GW Above Partitioning Threshold - 1%	8
4328.24	6360.66	-87.01999847	Pier25-19	GW Above Partitioning Threshold - 1%	8
4259.16	6199.12	-64.32	Pier25-18	GW Above Partitioning Threshold - 1%	8
4259.16	6199.12	-84.32	Pier25-18	GW Above Partitioning Threshold - 1%	8
4259.16	6199.12	-94.32	Pier25-18	GW Above Partitioning Threshold - 1%	8
4259.16	6199.12	-114.32	Pier25-18	GW Above Partitioning Threshold - 1%	8
4259.16	6199.12	-104.32	Pier25-18	GW Above Partitioning Threshold - 1%	8
4259.16	6199.12	-74.32	Pier25-18	GW Above Partitioning Threshold - 1%	8
4251.1	6356.95	-70.82	Pier25-17	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-55.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-50.82	5106-20	GW Above Partitioning Threshold - 1%	8

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4400.99	6048.31	-60.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-70.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-95.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-85.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-75.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-80.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-90.82	5106-20	GW Above Partitioning Threshold - 1%	8
4400.99	6048.31	-65.82	5106-20	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-50.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-55.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-75.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-70.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-65.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-60.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-80.42	5106-21	GW Above Partitioning Threshold - 1%	8
4401.9	5841.8	-85.42	5106-21	GW Above Partitioning Threshold - 1%	8
4472.09	6509.67	-71.22	Pier25-23	GW Above Partitioning Threshold - 1%	8
4414.64	6367.75	-82.31999847	Pier25-24	GW Above Partitioning Threshold - 1%	8
4414.64	6367.75	-92.31999847	Pier25-24	GW Above Partitioning Threshold - 1%	8
4414.64	6367.75	-102.3199985	Pier25-24	GW Above Partitioning Threshold - 1%	8
4461.71	6655.52	-69.91999847	Pier25-22	GW Above Partitioning Threshold - 1%	8
4404.82	6198.18	-61.42	Pier25-25	GW Above Partitioning Threshold - 1%	8
4404.82	6198.18	-101.42	Pier25-25	GW Above Partitioning Threshold - 1%	8
4404.82	6198.18	-90.92	Pier25-25	GW Above Partitioning Threshold - 1%	8
4404.82	6198.18	-71.42	Pier25-25	GW Above Partitioning Threshold - 1%	8
4404.82	6198.18	-81.42	Pier25-25	GW Above Partitioning Threshold - 1%	8
4483.85	6362.39	-77.02	Pier25-26	GW Above Partitioning Threshold - 1%	8
4118.59	5990.64	-66.42	5106-2	GW Above Partitioning Threshold - 1%	8
4118.59	5990.64	-52.42	5106-2	GW Above Partitioning Threshold - 1%	8
4118.59	5990.64	-56.42	5106-2	GW Above Partitioning Threshold - 1%	8
4118.59	5990.64	-106.42	5106-2	GW Above Partitioning Threshold - 1%	8
4136.54	6357.39	-97.52	Pier25-12	GW Above Partitioning Threshold - 1%	8
4136.54	6357.39	-77.52	Pier25-12	GW Above Partitioning Threshold - 1%	8
4136.54	6357.39	-117.52	Pier25-12	GW Above Partitioning Threshold - 1%	8
4136.54	6357.39	-87.52	Pier25-12	GW Above Partitioning Threshold - 1%	8
4140.31	6196.79	-80.62	Pier25-13	GW Above Partitioning Threshold - 1%	8
4140.31	6196.79	-70.62	Pier25-13	GW Above Partitioning Threshold - 1%	8
4140.31	6196.79	-100.62	Pier25-13	GW Above Partitioning Threshold - 1%	8
4140.31	6196.79	-130.62	Pier25-13	GW Above Partitioning Threshold - 1%	8
4140.31	6196.79	-120.62	Pier25-13	GW Above Partitioning Threshold - 1%	8
4529.5	5842.99	-52.02	5106-24	GW Above Partitioning Threshold - 1%	8
4529.5	5842.99	-62.02	5106-24	GW Above Partitioning Threshold - 1%	8
4529.5	5842.99	-57.02	5106-24	GW Above Partitioning Threshold - 1%	8
4529.5	5842.99	-67.02	5106-24	GW Above Partitioning Threshold - 1%	8
4529.5	5842.99	-82.02	5106-24	GW Above Partitioning Threshold - 1%	8
4529.5	5842.99	-77.02	5106-24	GW Above Partitioning Threshold - 1%	8
4680.53	5841.54	-27.92	5106-26	GW Above Partitioning Threshold - 1%	8
4680.53	5841.54	-32.92	5106-26	GW Above Partitioning Threshold - 1%	8
4680.53	5841.54	-37.92	5106-26	GW Above Partitioning Threshold - 1%	8
4680.53	5841.54	-42.92	5106-26	GW Above Partitioning Threshold - 1%	8
4680.53	5841.54	-22.92	5106-26	GW Above Partitioning Threshold - 1%	8

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4680.53	5841.54	-52.92	5106-26	GW Above Partitioning Threshold - 1%	8
4680.53	5841.54	-47.92	5106-26	GW Above Partitioning Threshold - 1%	8
4678.07	6046.97	-47.72	5106-27	GW Above Partitioning Threshold - 1%	8
4678.07	6046.97	-38.72	5106-27	GW Above Partitioning Threshold - 1%	8
3844.21	5973.71	-85.43	T1-100	GW Above Partitioning Threshold - 1%	8
3948.74	5818.03	-34.77	59-50	GW Above Partitioning Threshold - 1%	8
3949.63	5826.13	-9.64	59-25	GW Above Partitioning Threshold - 1%	8
4633.16	5710.77	-49.52	5106-25	GW Above Partitioning Threshold - 1%	8
3933.81	5912.03	-90.4	1-100R	GW Above Partitioning Threshold - 1%	8
3748.42	5945.86	-10.6	4-25R	GW Above Partitioning Threshold - 1%	8
3305.72	6378.94	-12.21	78-25	GW Above Partitioning Threshold - 1%	8
4036.96	6531.98	-86.61	PZ-SHI-1-100	GW Above Partitioning Threshold - 1%	8
3398.14	6041.53	-35.1	53-50	GW Above Partitioning Threshold - 1%	8
4035.59	6534.97	-114.64	PZ-SHI-1-126	GW Above Partitioning Threshold - 1%	8
4023.85	5820.96	-12.82	PZ-SHI-2-25	GW Above Partitioning Threshold - 1%	8
3408.76	6042.42	-10.1	53-25	GW Above Partitioning Threshold - 1%	8
3180.41	5809.09	-40.6	C-4	GW Above Partitioning Threshold - 1%	8
3627.95	6251.91	-82.68	D-5	GW Above Partitioning Threshold - 1%	8
3192.53	6050.68	-40.7	C-1	GW Above Partitioning Threshold - 1%	8
3189.74	5984.22	-40.8	C-2	GW Above Partitioning Threshold - 1%	8
3467.37	6043.94	-41.6	D-3	GW Above Partitioning Threshold - 1%	8
3679.78	6071.12	-88.3	D-4	GW Above Partitioning Threshold - 1%	8
3737.49	5840.39	-7.9	SP-6	GW Above Partitioning Threshold - 1%	8
3737.49	5840.39	-32.9	SP-6	GW Above Partitioning Threshold - 1%	8
3737.49	5840.39	-77.9	SP-6	GW Above Partitioning Threshold - 1%	8
3737.49	5840.39	-57.9	SP-6	GW Above Partitioning Threshold - 1%	8
3620.81	5840.62	-32.9	SP-5	GW Above Partitioning Threshold - 1%	8
3620.81	5840.62	-37.9	SP-5	GW Above Partitioning Threshold - 1%	8
3620.81	5840.62	-77.9	SP-5	GW Above Partitioning Threshold - 1%	8
3766.32	5794.47	-7.9	SP-3	GW Above Partitioning Threshold - 1%	8
3766.32	5794.47	-37.9	SP-3	GW Above Partitioning Threshold - 1%	8
3766.32	5794.47	-57.9	SP-3	GW Above Partitioning Threshold - 1%	8
3766.32	5794.47	-88.4	SP-3	GW Above Partitioning Threshold - 1%	8
3766.32	5794.47	-76.9	SP-3	GW Above Partitioning Threshold - 1%	8
3766.32	5794.47	-67.9	SP-3	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-22.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-12.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-32.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-47.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-37.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-57.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-67.9	SP-4	GW Above Partitioning Threshold - 1%	8
3623.15	5675.71	-77.9	SP-4	GW Above Partitioning Threshold - 1%	8
3846.65	5845.25	-7.9	SP-1	GW Above Partitioning Threshold - 1%	8
3846.65	5845.25	-12.9	SP-1	GW Above Partitioning Threshold - 1%	8
3846.65	5845.25	-32.9	SP-1	GW Above Partitioning Threshold - 1%	8
3846.65	5845.25	-37.9	SP-1	GW Above Partitioning Threshold - 1%	8
3846.65	5845.25	-47.9	SP-1	GW Above Partitioning Threshold - 1%	8
3846.65	5845.25	-57.9	SP-1	GW Above Partitioning Threshold - 1%	8
3879.44	5800.06	-7.9	SP-7	GW Above Partitioning Threshold - 1%	8
3879.44	5800.06	-32.9	SP-7	GW Above Partitioning Threshold - 1%	8

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**GROUNDWATER ABOVE PARTITIONING THRESHOLD - 1% - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3879.44	5800.06	-37.9	SP-7	GW Above Partitioning Threshold - 1%	8
3851.78	5669.02	2.1	SP-2	GW Above Partitioning Threshold - 1%	8
3891.31	5942.9	-32.9	SP-8	GW Above Partitioning Threshold - 1%	8
3891.31	5942.9	-57.9	SP-8	GW Above Partitioning Threshold - 1%	8
3891.31	5942.9	-47.9	SP-8	GW Above Partitioning Threshold - 1%	8
3356.97	5861.96	-10.4	WMUA-12	GW Above Partitioning Threshold - 1%	8
3248.86	5858.49	-7.9	WMUA-13	GW Above Partitioning Threshold - 1%	8
3486.64	5981.12	-61.4	WMUA-18	GW Above Partitioning Threshold - 1%	8
3964.85	6328.92	-87.9	BH-72	GW Above Partitioning Threshold - 1%	8
3973.03	6500.14	-87.9	BH-71	GW Above Partitioning Threshold - 1%	8
3714.93	6525.01	-115.72	74-130	GW Above Partitioning Threshold - 1%	8
3891.31	5942.9	-94.4	SP-8	GW Above Partitioning Threshold - 1%	8
3358.04	6138.13	-0.32	HC-N6-2	GW Above Partitioning Threshold - 1%	8
3360.01	6104.13	-0.32	HC-N6-3	GW Above Partitioning Threshold - 1%	8
3335.02	6111.15	-0.32	HC-N6-4	GW Above Partitioning Threshold - 1%	8
3377.6	6957.62	-114.27	77C-130	GW Above Partitioning Threshold - 1%	8
3362.53	6743.73	-114.56	61C-130	GW Above Partitioning Threshold - 1%	8
3362.53	6743.73	-157.46	61C-160	GW Above Partitioning Threshold - 1%	8
3499.91	6054.54	-116.65	53C-130	GW Above Partitioning Threshold - 1%	8
3499.91	6054.54	-84.2	53C-100	GW Above Partitioning Threshold - 1%	8
3499.91	6054.54	-59.57	53C-75	GW Above Partitioning Threshold - 1%	8
3499.91	6054.54	-34.74	53C-50	GW Above Partitioning Threshold - 1%	8
3944.78	6070.07	-35.47	83C-50	GW Above Partitioning Threshold - 1%	8
3944.78	6070.07	-60.38	83C-75	GW Above Partitioning Threshold - 1%	8
3944.78	6070.07	-115.34	83C-130	GW Above Partitioning Threshold - 1%	8
3944.78	6070.07	-85.34	83C-100	GW Above Partitioning Threshold - 1%	8
3230.69	6042.65	-9.5	7-25	GW Above Partitioning Threshold - 1%	8
3097.43	5943.67	-35.4	24-50	GW Above Partitioning Threshold - 1%	8
3601.42	5605.87	-35.4	22-50	GW Above Partitioning Threshold - 1%	8
3713.39	6087.45	-87.2	10-100	GW Above Partitioning Threshold - 1%	8
4171.03	6502.01	-95.5	WW-A1R	GW Above Partitioning Threshold - 1%	8
4171.03	6502.01	-85.5	WW-A1R	GW Above Partitioning Threshold - 1%	8
4171.03	6502.01	-105.5	WW-A1R	GW Above Partitioning Threshold - 1%	8
4171.03	6502.01	-115.5	WW-A1R	GW Above Partitioning Threshold - 1%	8
4017.1	5823.61	-61.18	PZ-SHI-2-75	GW Above Partitioning Threshold - 1%	8
3736.82	6790.48	-111.59	H-01	GW Above Partitioning Threshold - 1%	8
3736.82	6790.48	-121.59	H-01	GW Above Partitioning Threshold - 1%	8
3736.82	6790.48	-131.59	H-01	GW Above Partitioning Threshold - 1%	8
3736.82	6790.48	-171.59	H-01	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-90.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-120.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-130.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-110.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-140.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-170.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3602.81	6581.91	-160.43	EXT-9	GW Above Partitioning Threshold - 1%	8
3146.89	7018.33	-132.62	G	GW Above Partitioning Threshold - 1%	8
3146.89	7018.33	-142.62	G	GW Above Partitioning Threshold - 1%	8
3799.93	6470.18	-102.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8
3799.93	6470.18	-92.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8
3799.93	6470.18	-112.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3799.93	6470.18	-122.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8
3799.93	6470.18	-132.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8
3799.93	6470.18	-162.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8
3799.93	6470.18	-152.45	SB-B-DEEP	GW Above Partitioning Threshold - 1%	8
3909.7	6402.7	-84.87	94C-100	GW Above Partitioning Threshold - 1%	8
3799.74	5967.86	-52.25	90C-75	GW Above Partitioning Threshold - 1%	8
3138.6	7018.62	-132.13	G-Shallow	GW Above Partitioning Threshold - 1%	8
3603.02	6586.62	-139.94	EXT-9-Int	GW Above Partitioning Threshold - 1%	8

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3403.27	5903.8	-60.65	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-53.15	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-50.65	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-38.65	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-28.15	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-19.65	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-14.65	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-10.65	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	-0.15	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	3.35	WMUA-41	Below Partitioning Threshold	9
3403.27	5903.8	4.35	WMUA-41	Below Partitioning Threshold	9
3490.4	5797.78	-161.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-152.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-142.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-132.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-122.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-112.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-102.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-95.57	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-92.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-82.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-72.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-60.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-51.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-42.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-31.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-21.57	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-12.07	WMUG-04/21C	Below Partitioning Threshold	9
3490.4	5797.78	-2.07	WMUG-04/21C	Below Partitioning Threshold	9
3460.98	5958.26	-62.23	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	-54.23	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	-44.73	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	-35.23	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	-26.23	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	-13.23	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	-3.73	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	0.77	WMUA-40	Below Partitioning Threshold	9
3460.98	5958.26	4.27	WMUA-40	Below Partitioning Threshold	9
3656.53	5856.41	-60.73	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	-51.23	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	-44.73	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	-34.23	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	-31.23	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	-21.23	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	-5.23	WMUG-01	Below Partitioning Threshold	9
3656.53	5856.41	4.27	WMUG-01	Below Partitioning Threshold	9
3212.16	5809.44	-187.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-177.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-166.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-159.83	89C	Below Partitioning Threshold	9
3212.16	5809.44	-152.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-144.83	89C	Below Partitioning Threshold	9
3212.16	5809.44	-134.83	89C	Below Partitioning Threshold	9
3212.16	5809.44	-126.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-117.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-80.83	89C	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3212.16	5809.44	-70.83	89C	Below Partitioning Threshold	9
3212.16	5809.44	-62.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-55.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-42.83	89C	Below Partitioning Threshold	9
3212.16	5809.44	-34.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-27.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-22.33	89C	Below Partitioning Threshold	9
3212.16	5809.44	-12.83	89C	Below Partitioning Threshold	9
3212.16	5809.44	-2.33	89C	Below Partitioning Threshold	9
3212.84	5951.1	-34.86	WMUA-36	Below Partitioning Threshold	9
3212.84	5951.1	-28.36	WMUA-36	Below Partitioning Threshold	9
3212.84	5951.1	-13.86	WMUA-36	Below Partitioning Threshold	9
3212.84	5951.1	-9.36	WMUA-36	Below Partitioning Threshold	9
3212.84	5951.1	2.64	WMUA-36	Below Partitioning Threshold	9
3617.03	6691.64	-87.38	40-100R	Below Partitioning Threshold	9
3934.48	4409.91	5.85	TP-2-93	Below Partitioning Threshold	9
3934.48	4409.91	8.35	TP-2-93	Below Partitioning Threshold	9
3934.48	4409.91	11.35	TP-2-93	Below Partitioning Threshold	9
3954	4566.12	6.35	TP-3-93	Below Partitioning Threshold	9
3954	4566.12	9.35	TP-3-93	Below Partitioning Threshold	9
3954	4566.12	10.85	TP-3-93	Below Partitioning Threshold	9
3954	4566.12	11.35	TP-3-93	Below Partitioning Threshold	9
3901.92	4565.04	6.35	TP-4-93	Below Partitioning Threshold	9
3901.92	4565.04	8.35	TP-4-93	Below Partitioning Threshold	9
3986.08	4508.4	2.85	TP-7-93	Below Partitioning Threshold	9
3606.65	6586.76	-191.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-183.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-172.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-163.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-152.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-143.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-102.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-94.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-86.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-76.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-63.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-52.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-44.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-34.92	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-22.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-12.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	-7.42	EXT-9-Deep	Below Partitioning Threshold	9
3606.65	6586.76	2.58	EXT-9-Deep	Below Partitioning Threshold	9
3602.81	6581.91	-105.43	EXT-9	Below Partitioning Threshold	9
3603.02	6586.62	-140.44	EXT-9-Intermediate	Below Partitioning Threshold	9
3848.61	4502.02	6.19	709-MW2-15	Below Partitioning Threshold	9
3615.52	5715.46	-36.58	WMUG-11	Below Partitioning Threshold	9
3615.52	5715.46	-19.58	WMUG-11	Below Partitioning Threshold	9
3615.52	5715.46	-15.08	WMUG-11	Below Partitioning Threshold	9
3615.52	5715.46	5.42	WMUG-11	Below Partitioning Threshold	9
3762.19	5861.43	-62.6	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-50.1	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-45.1	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-41.1	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-33.6	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-29.6	WMUG-05	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3762.19	5861.43	-20.6	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-15.6	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	-5.1	WMUG-05	Below Partitioning Threshold	9
3762.19	5861.43	5.9	WMUG-05	Below Partitioning Threshold	9
3142.19	5979.52	-59.62	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-56.12	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-50.32	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-46.12	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-39.12	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-29.12	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-23.12	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-16.62	WMUA-34	Below Partitioning Threshold	9
3142.19	5979.52	-7.12	WMUA-34	Below Partitioning Threshold	9
3596.13	5826.14	-62.68	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	-57.58	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	-52.68	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	-42.68	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	-31.68	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	-16.88	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	-4.68	WMUG-02	Below Partitioning Threshold	9
3596.13	5826.14	2.32	WMUG-02	Below Partitioning Threshold	9
3257.36	5999.71	-36.72	WMUA-37	Below Partitioning Threshold	9
3257.36	5999.71	-31.22	WMUA-37	Below Partitioning Threshold	9
3257.36	5999.71	-24.72	WMUA-37	Below Partitioning Threshold	9
3257.36	5999.71	-15.72	WMUA-37	Below Partitioning Threshold	9
3257.36	5999.71	-8.72	WMUA-37	Below Partitioning Threshold	9
3257.36	5999.71	0.28	WMUA-37	Below Partitioning Threshold	9
3257.36	5999.71	2.28	WMUA-37	Below Partitioning Threshold	9
3609.42	6282.61	-60.75	11-75	Below Partitioning Threshold	9
3609.42	6282.61	-52.25	11-75	Below Partitioning Threshold	9
3609.42	6282.61	-46.75	11-75	Below Partitioning Threshold	9
3609.42	6282.61	-40.75	11-75	Below Partitioning Threshold	9
3609.42	6282.61	-35.75	11-75	Below Partitioning Threshold	9
3609.42	6282.61	-27.25	11-75	Below Partitioning Threshold	9
3609.42	6282.61	-15.75	11-75	Below Partitioning Threshold	9
3912.52	5058.42	-36.78	PH02	Below Partitioning Threshold	9
3912.52	5058.42	-25.78	PH02	Below Partitioning Threshold	9
3912.52	5058.42	-19.78	PH02	Below Partitioning Threshold	9
3912.52	5058.42	-17.78	PH02	Below Partitioning Threshold	9
3297.62	6020.09	-37.28	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-35.28	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-32.28	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-26.28	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-22.78	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-19.68	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-8.78	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-5.28	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	-0.28	WMUA-38	Below Partitioning Threshold	9
3297.62	6020.09	2.22	WMUA-38	Below Partitioning Threshold	9
3727.84	5863.44	-62.83	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	-49.83	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	-45.83	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	-42.33	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	-35.83	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	-27.33	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	-14.83	WMUG-07	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3727.84	5863.44	-5.33	WMUG-07	Below Partitioning Threshold	9
3727.84	5863.44	4.67	WMUG-07	Below Partitioning Threshold	9
3635.3	5939.96	-21.46	WMUG-12	Below Partitioning Threshold	9
3635.3	5939.96	6.04	WMUG-12	Below Partitioning Threshold	9
3993.52	5736.22	7	BH-9-96	Below Partitioning Threshold	9
3065.01	5961.29	-63.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	-52.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	-43.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	-33.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	-23.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	-13.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	-3.04	WMUA-35	Below Partitioning Threshold	9
3065.01	5961.29	6.96	WMUA-35	Below Partitioning Threshold	9
3705.51	5808.61	-62.57	WMUG-06	Below Partitioning Threshold	9
3705.51	5808.61	-54.07	WMUG-06	Below Partitioning Threshold	9
3705.51	5808.61	-44.07	WMUG-06	Below Partitioning Threshold	9
3705.51	5808.61	-36.57	WMUG-06	Below Partitioning Threshold	9
3705.51	5808.61	-26.07	WMUG-06	Below Partitioning Threshold	9
3705.51	5808.61	4.93	WMUG-06	Below Partitioning Threshold	9
3757.49	5706.63	-37.87	WMUG-10	Below Partitioning Threshold	9
3757.49	5706.63	-30.47	WMUG-10	Below Partitioning Threshold	9
3757.49	5706.63	-25.57	WMUG-10	Below Partitioning Threshold	9
3757.49	5706.63	-22.77	WMUG-10	Below Partitioning Threshold	9
3757.49	5706.63	-15.07	WMUG-10	Below Partitioning Threshold	9
3757.49	5706.63	-3.57	WMUG-10	Below Partitioning Threshold	9
3757.49	5706.63	4.93	WMUG-10	Below Partitioning Threshold	9
3504.64	6059.77	-166.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-149.58	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-147.58	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-135.88	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-125.58	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-115.78	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-104.58	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-97.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-87.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-77.58	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-67.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-57.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-41.58	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-32.28	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-26.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-14.08	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	-4.78	WMUA-39/53C	Below Partitioning Threshold	9
3504.64	6059.77	3.92	WMUA-39/53C	Below Partitioning Threshold	9
3706.91	4556.1	-11.59	709-BH-01	Below Partitioning Threshold	9
3706.91	4556.1	-3.59	709-BH-01	Below Partitioning Threshold	9
3706.91	4556.1	5.41	709-BH-01	Below Partitioning Threshold	9
3706.91	4556.1	7.41	709-BH-01	Below Partitioning Threshold	9
3345.78	4599.33	-3.1	47-15	Below Partitioning Threshold	9
3345.78	4599.33	0.9	47-15	Below Partitioning Threshold	9
3345.78	4599.33	2.9	47-15	Below Partitioning Threshold	9
3260.48	4712.51	-13.11	WMUL-02	Below Partitioning Threshold	9
3260.48	4712.51	-8.11	WMUL-02	Below Partitioning Threshold	9
3260.48	4712.51	-3.11	WMUL-02	Below Partitioning Threshold	9
3260.48	4712.51	1.89	WMUL-02	Below Partitioning Threshold	9
3260.48	4712.51	6.89	WMUL-02	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3260.48	4712.51	9.89	WMUL-02	Below Partitioning Threshold	9
3652.9	6052.45	-112.62	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-103.62	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-94.62	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-74.12	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-50.12	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-41.62	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-32.62	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-22.12	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-19.12	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-1.12	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	-0.12	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	1.88	WMUR-09	Below Partitioning Threshold	9
3652.9	6052.45	2.88	WMUR-09	Below Partitioning Threshold	9
3654.89	4555.92	-11.63	709-BH-03	Below Partitioning Threshold	9
3654.89	4555.92	2.37	709-BH-03	Below Partitioning Threshold	9
3654.89	4555.92	5.37	709-BH-03	Below Partitioning Threshold	9
3654.89	4555.92	9.87	709-BH-03	Below Partitioning Threshold	9
3237.71	4749.53	-12.64	WMUL-01	Below Partitioning Threshold	9
3237.71	4749.53	-8.64	WMUL-01	Below Partitioning Threshold	9
3237.71	4749.53	-3.64	WMUL-01	Below Partitioning Threshold	9
3237.71	4749.53	1.36	WMUL-01	Below Partitioning Threshold	9
3237.71	4749.53	6.36	WMUL-01	Below Partitioning Threshold	9
3237.71	4749.53	9.86	WMUL-01	Below Partitioning Threshold	9
3836.24	4814.44	-13.14	WMUM-02	Below Partitioning Threshold	9
3836.24	4814.44	-8.14	WMUM-02	Below Partitioning Threshold	9
3836.24	4814.44	-3.14	WMUM-02	Below Partitioning Threshold	9
3836.24	4814.44	1.86	WMUM-02	Below Partitioning Threshold	9
3836.24	4814.44	6.86	WMUM-02	Below Partitioning Threshold	9
3836.24	4814.44	9.86	WMUM-02	Below Partitioning Threshold	9
3704.83	6052.05	-107.67	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-96.67	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-92.87	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-81.17	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-72.17	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-62.17	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-51.17	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-41.67	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-32.67	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-22.17	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	-17.67	WMUR-01	Below Partitioning Threshold	9
3704.83	6052.05	2.83	WMUR-01	Below Partitioning Threshold	9
3992.31	5177.79	6.8	BH-2-96	Below Partitioning Threshold	9
3645.63	5782.75	-60.22	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	-56.22	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	-46.22	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	-39.72	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	-37.22	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	-27.22	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	-11.22	WMUG-03	Below Partitioning Threshold	9
3645.63	5782.75	2.78	WMUG-03	Below Partitioning Threshold	9
3175.53	4391.34	-11.76	709-MW21	Below Partitioning Threshold	9
3175.53	4391.34	-2.76	709-MW21	Below Partitioning Threshold	9
3175.53	4391.34	2.24	709-MW21	Below Partitioning Threshold	9
3175.53	4391.34	8.74	709-MW21	Below Partitioning Threshold	9
3709.31	5938.88	-62.76	WMUG-09	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3709.31	5938.88	-57.26	WMUG-09	Below Partitioning Threshold	9
3709.31	5938.88	-45.76	WMUG-09	Below Partitioning Threshold	9
3709.31	5938.88	-35.76	WMUG-09	Below Partitioning Threshold	9
3709.31	5938.88	-25.26	WMUG-09	Below Partitioning Threshold	9
3709.31	5938.88	-14.56	WMUG-09	Below Partitioning Threshold	9
3709.31	5938.88	-12.76	WMUG-09	Below Partitioning Threshold	9
3709.31	5938.88	3.24	WMUG-09	Below Partitioning Threshold	9
3860.72	4819.82	-13.26	WMUM-01	Below Partitioning Threshold	9
3860.72	4819.82	-8.26	WMUM-01	Below Partitioning Threshold	9
3860.72	4819.82	-3.26	WMUM-01	Below Partitioning Threshold	9
3860.72	4819.82	1.74	WMUM-01	Below Partitioning Threshold	9
3860.72	4819.82	6.74	WMUM-01	Below Partitioning Threshold	9
3860.72	4819.82	9.74	WMUM-01	Below Partitioning Threshold	9
3971.43	5918.73	-135.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-130.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-125.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-125.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-120.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-115.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-110.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-105.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-100.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-95.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-90.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-85.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-80.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-75.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-70.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-65.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-60.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-55.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-50.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-45.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-40.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-35.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-30.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-25.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-20.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-13.82	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-8.82	EA-1	Below Partitioning Threshold	9
3974.44	5780.85	-139.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-134.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-129.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-124.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-119.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-114.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-109.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-104.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-99.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-94.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-89.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-84.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-79.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-74.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-69.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-64.32	EA-2	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3974.44	5780.85	-59.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-54.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-49.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-44.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-39.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-34.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-29.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-24.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-19.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-14.32	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-9.32	EA-2	Below Partitioning Threshold	9
3993.38	5608.85	-149.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-144.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-139.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-134.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-129.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-124.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-119.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-114.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-109.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-104.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-99.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-94.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-89.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-84.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-79.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-74.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-69.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-64.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-59.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-54.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-49.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-44.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-39.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-34.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-29.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-24.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-19.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-14.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-9.32	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	0.68	EA-3	Below Partitioning Threshold	9
3974.49	4832.22	-99.13	17C	Below Partitioning Threshold	9
3974.49	4832.22	-33.43	17C	Below Partitioning Threshold	9
3974.49	4832.22	-23.53	17C	Below Partitioning Threshold	9
3974.49	4832.22	-13.83	17C	Below Partitioning Threshold	9
3974.49	4832.22	-6.83	17C	Below Partitioning Threshold	9
3974.49	4832.22	-3.53	17C	Below Partitioning Threshold	9
3974.49	4832.22	6.67	17C	Below Partitioning Threshold	9
3857.07	4405.91	5.42	709-MW1-15	Below Partitioning Threshold	9
3703.53	4505.86	-11.84	709-BH-02	Below Partitioning Threshold	9
3703.53	4505.86	-3.84	709-BH-02	Below Partitioning Threshold	9
3703.53	4505.86	4.66	709-BH-02	Below Partitioning Threshold	9
3703.53	4505.86	9.16	709-BH-02	Below Partitioning Threshold	9
3799.74	5967.86	-159.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-155.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-144.35	WMUG-08	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3799.74	5967.86	-136.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-129.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-127.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-116.85	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-107.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-97.85	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-85.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-82.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-77.85	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-69.85	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-67.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-57.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-49.85	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-47.85	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-41.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-29.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-26.35	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	-4.65	WMUG-08	Below Partitioning Threshold	9
3799.74	5967.86	5.65	WMUG-08	Below Partitioning Threshold	9
3760.84	6052.88	-105.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-93.85	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-87.85	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-75.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-64.85	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-54.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-52.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-40.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-31.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-20.85	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-12.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-6.35	WMUR-02	Below Partitioning Threshold	9
3760.84	6052.88	-4.05	WMUR-02	Below Partitioning Threshold	9
3482.18	4377.94	-4.4	709-MW-10-15	Below Partitioning Threshold	9
3482.18	4377.94	6.6	709-MW-10-15	Below Partitioning Threshold	9
3299.14	4413.62	-4.4	709-MW11-15	Below Partitioning Threshold	9
3299.14	4413.62	6.6	709-MW11-15	Below Partitioning Threshold	9
3332.2	4469.89	-4.4	709-MW12-15	Below Partitioning Threshold	9
3332.2	4469.89	6.6	709-MW12-15	Below Partitioning Threshold	9
3590.76	4484.76	-6.4	709-MW14-15	Below Partitioning Threshold	9
3590.76	4484.76	6.6	709-MW14-15	Below Partitioning Threshold	9
3456.52	4576.15	-4.4	709-MW16-15	Below Partitioning Threshold	9
3456.52	4576.15	5.6	709-MW16-15	Below Partitioning Threshold	9
3316.09	4576.76	-2.4	709-MW17-15	Below Partitioning Threshold	9
3316.09	4576.76	5.6	709-MW17-15	Below Partitioning Threshold	9
3185.41	4547.61	-4.4	709-MW18-15	Below Partitioning Threshold	9
3185.41	4547.61	5.6	709-MW18-15	Below Partitioning Threshold	9
3746.43	4577.96	-5.15	709-MW3-15	Below Partitioning Threshold	9
3746.43	4577.96	6.85	709-MW3-15	Below Partitioning Threshold	9
3946.92	4534.38	-6.65	709-MW4-15	Below Partitioning Threshold	9
3946.92	4534.38	3.85	709-MW4-15	Below Partitioning Threshold	9
3957.34	4444.53	2.35	709-MW5-15	Below Partitioning Threshold	9
3578.2	4413.83	-4.4	709-MW9-15	Below Partitioning Threshold	9
3578.2	4413.83	4.1	709-MW9-15	Below Partitioning Threshold	9
3851.37	4367.84	-18.4	721-GP5	Below Partitioning Threshold	9
3851.37	4367.84	-6.4	721-GP5	Below Partitioning Threshold	9
3851.37	4367.84	1.6	721-GP5	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3851.37	4367.84	6.6	721-GP5	Below Partitioning Threshold	9
3887.67	5362.38	3.6	CH-1	Below Partitioning Threshold	9
3887.67	5362.38	7.6	CH-1	Below Partitioning Threshold	9
3887.67	5362.38	10.6	CH-1	Below Partitioning Threshold	9
3792.54	5299.16	7.6	CH-2	Below Partitioning Threshold	9
3792.54	5299.16	10.6	CH-2	Below Partitioning Threshold	9
3700.85	5386.12	3.6	CH-3	Below Partitioning Threshold	9
3700.85	5386.12	7.6	CH-3	Below Partitioning Threshold	9
3700.85	5386.12	10.6	CH-3	Below Partitioning Threshold	9
3776.43	5433.83	-2.9	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	3.6	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	7.6	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	10.6	CH-4	Below Partitioning Threshold	9
3785.79	5367.88	4.6	CH-5	Below Partitioning Threshold	9
3785.79	5367.88	7.6	CH-5	Below Partitioning Threshold	9
3785.79	5367.88	10.6	CH-5	Below Partitioning Threshold	9
3982.77	4912.44	-9.5	NL-1	Below Partitioning Threshold	9
3982.77	4912.44	-4.6	NL-1	Below Partitioning Threshold	9
3982.77	4912.44	0.6	NL-1	Below Partitioning Threshold	9
3982.77	4912.44	5.4	NL-1	Below Partitioning Threshold	9
3902.77	4825.87	-12.65	NL-10	Below Partitioning Threshold	9
3902.77	4825.87	-10.4	NL-10	Below Partitioning Threshold	9
3902.77	4825.87	-2.4	NL-10	Below Partitioning Threshold	9
3902.77	4825.87	5.1	NL-10	Below Partitioning Threshold	9
3902.77	4825.87	7.6	NL-10	Below Partitioning Threshold	9
3945.6	4898.49	-12.4	NL-11	Below Partitioning Threshold	9
3945.6	4898.49	-8.9	NL-11	Below Partitioning Threshold	9
3945.6	4898.49	-3.4	NL-11	Below Partitioning Threshold	9
3945.6	4898.49	1.6	NL-11	Below Partitioning Threshold	9
3945.6	4898.49	6.1	NL-11	Below Partitioning Threshold	9
3945.6	4898.49	9.1	NL-11	Below Partitioning Threshold	9
3983.39	4949.96	-12.4	NL-12	Below Partitioning Threshold	9
3983.39	4949.96	-7.4	NL-12	Below Partitioning Threshold	9
3983.39	4949.96	-3.4	NL-12	Below Partitioning Threshold	9
3983.39	4949.96	5.1	NL-12	Below Partitioning Threshold	9
3983.39	4949.96	9.6	NL-12	Below Partitioning Threshold	9
3979.12	4536.06	-13.4	NL-18	Below Partitioning Threshold	9
3979.12	4536.06	-7.4	NL-18	Below Partitioning Threshold	9
3979.12	4536.06	-1.4	NL-18	Below Partitioning Threshold	9
3979.12	4536.06	2.6	NL-18	Below Partitioning Threshold	9
3979.12	4536.06	6.6	NL-18	Below Partitioning Threshold	9
3979.12	4536.06	8.6	NL-18	Below Partitioning Threshold	9
3931.82	4584.92	-13.4	NL-19	Below Partitioning Threshold	9
3931.82	4584.92	-7.4	NL-19	Below Partitioning Threshold	9
3931.82	4584.92	-1.4	NL-19	Below Partitioning Threshold	9
3931.82	4584.92	2.6	NL-19	Below Partitioning Threshold	9
3931.82	4584.92	6.6	NL-19	Below Partitioning Threshold	9
3931.82	4584.92	8.6	NL-19	Below Partitioning Threshold	9
3946.89	4876.67	-10.4	NL-2	Below Partitioning Threshold	9
3946.89	4876.67	-5.4	NL-2	Below Partitioning Threshold	9
3946.89	4876.67	-0.4	NL-2	Below Partitioning Threshold	9
3946.89	4876.67	4.6	NL-2	Below Partitioning Threshold	9
3907.53	4705.21	-13.4	NL-20	Below Partitioning Threshold	9
3907.53	4705.21	-7.4	NL-20	Below Partitioning Threshold	9
3907.53	4705.21	-1.4	NL-20	Below Partitioning Threshold	9
3907.53	4705.21	2.6	NL-20	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3907.53	4705.21	6.6	NL-20	Below Partitioning Threshold	9
3907.53	4705.21	8.6	NL-20	Below Partitioning Threshold	9
3879.37	4771.05	-13.4	NL-21	Below Partitioning Threshold	9
3879.37	4771.05	-7.4	NL-21	Below Partitioning Threshold	9
3879.37	4771.05	-1.4	NL-21	Below Partitioning Threshold	9
3879.37	4771.05	2.6	NL-21	Below Partitioning Threshold	9
3879.37	4771.05	6.6	NL-21	Below Partitioning Threshold	9
3879.37	4771.05	8.6	NL-21	Below Partitioning Threshold	9
3928.19	4929.38	-13.4	NL-22	Below Partitioning Threshold	9
3928.19	4929.38	-11.4	NL-22	Below Partitioning Threshold	9
3928.19	4929.38	-7.4	NL-22	Below Partitioning Threshold	9
3928.19	4929.38	-3.4	NL-22	Below Partitioning Threshold	9
3928.19	4929.38	0.6	NL-22	Below Partitioning Threshold	9
3928.19	4929.38	5.6	NL-22	Below Partitioning Threshold	9
3928.19	4929.38	9.6	NL-22	Below Partitioning Threshold	9
3977.12	4824.42	-11.4	NL-3	Below Partitioning Threshold	9
3977.12	4824.42	-4.4	NL-3	Below Partitioning Threshold	9
3977.12	4824.42	0.6	NL-3	Below Partitioning Threshold	9
3977.12	4824.42	4.85	NL-3	Below Partitioning Threshold	9
3942.44	4819.65	-9.4	NL-4	Below Partitioning Threshold	9
3942.44	4819.65	-4.4	NL-4	Below Partitioning Threshold	9
3942.44	4819.65	0.6	NL-4	Below Partitioning Threshold	9
3942.44	4819.65	5.35	NL-4	Below Partitioning Threshold	9
3978.19	4688.8	-9.8	NL-5	Below Partitioning Threshold	9
3978.19	4688.8	-4.8	NL-5	Below Partitioning Threshold	9
3978.19	4688.8	0.6	NL-5	Below Partitioning Threshold	9
3978.19	4688.8	4.9	NL-5	Below Partitioning Threshold	9
3978.78	4585.73	-12.4	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	-6.4	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	-4.9	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	-1.4	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	3.1	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	5.6	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	8.1	NL-6	Below Partitioning Threshold	9
3978.78	4585.73	10.6	NL-6	Below Partitioning Threshold	9
3954.96	4611.25	-12.4	NL-7	Below Partitioning Threshold	9
3954.96	4611.25	-6.4	NL-7	Below Partitioning Threshold	9
3954.96	4611.25	-1.4	NL-7	Below Partitioning Threshold	9
3954.96	4611.25	5.1	NL-7	Below Partitioning Threshold	9
3954.96	4611.25	8.1	NL-7	Below Partitioning Threshold	9
3954.96	4611.25	9.6	NL-7	Below Partitioning Threshold	9
3949.79	4689.44	-10.9	NL-8	Below Partitioning Threshold	9
3949.79	4689.44	-7.4	NL-8	Below Partitioning Threshold	9
3949.79	4689.44	-2.4	NL-8	Below Partitioning Threshold	9
3949.79	4689.44	1.1	NL-8	Below Partitioning Threshold	9
3949.79	4689.44	9.1	NL-8	Below Partitioning Threshold	9
3930.18	4766.53	-8.9	NL-9	Below Partitioning Threshold	9
3930.18	4766.53	-7.4	NL-9	Below Partitioning Threshold	9
3930.18	4766.53	-2.4	NL-9	Below Partitioning Threshold	9
3930.18	4766.53	6.1	NL-9	Below Partitioning Threshold	9
3930.18	4766.53	10.1	NL-9	Below Partitioning Threshold	9
3846.65	5845.25	3.6	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	7.6	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	10.6	SP-1	Below Partitioning Threshold	9
3851.78	5669.02	7.6	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	10.6	SP-2	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3766.32	5794.47	3.6	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	7.6	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	10.6	SP-3	Below Partitioning Threshold	9
3623.15	5675.71	3.6	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	7.6	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	10.6	SP-4	Below Partitioning Threshold	9
3620.81	5840.62	4.6	SP-5	Below Partitioning Threshold	9
3620.81	5840.62	7.6	SP-5	Below Partitioning Threshold	9
3620.81	5840.62	10.6	SP-5	Below Partitioning Threshold	9
3737.49	5840.39	7.6	SP-6	Below Partitioning Threshold	9
3737.49	5840.39	10.6	SP-6	Below Partitioning Threshold	9
3879.44	5800.06	3.6	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	7.6	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	10.6	SP-7	Below Partitioning Threshold	9
3891.31	5942.9	3.6	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	7.6	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	10.6	SP-8	Below Partitioning Threshold	9
3287.17	4736.06	3.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	4.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	5.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	6.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	7.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	8.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	9.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	10.1	SS1-95	Below Partitioning Threshold	9
3287.17	4736.06	11.1	SS1-95	Below Partitioning Threshold	9
3416.78	6041.79	3.6	WMUA-1	Below Partitioning Threshold	9
3416.78	6041.79	9.6	WMUA-1	Below Partitioning Threshold	9
3480.47	6010.46	3.35	WMUA-10	Below Partitioning Threshold	9
3480.47	6010.46	9.6	WMUA-10	Below Partitioning Threshold	9
3414.67	5861.78	-144.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-134.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-104.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-94.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-84.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-74.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-64.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-54.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-44.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-34.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-24.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-14.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-12.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-6.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-6.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	-4.4	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	3.6	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	5.6	WMUA-11	Below Partitioning Threshold	9
3414.67	5861.78	6.6	WMUA-11	Below Partitioning Threshold	9
3356.97	5861.96	-14.4	WMUA-12	Below Partitioning Threshold	9
3356.97	5861.96	-12.4	WMUA-12	Below Partitioning Threshold	9
3356.97	5861.96	-10.4	WMUA-12	Below Partitioning Threshold	9
3356.97	5861.96	-10.4	WMUA-12	Below Partitioning Threshold	9
3356.97	5861.96	4.1	WMUA-12	Below Partitioning Threshold	9
3356.97	5861.96	7.6	WMUA-12	Below Partitioning Threshold	9
3248.86	5858.49	-15.4	WMUA-13	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3248.86	5858.49	-11.9	WMUA-13	Below Partitioning Threshold	9
3248.86	5858.49	1.6	WMUA-13	Below Partitioning Threshold	9
3248.86	5858.49	5.6	WMUA-13	Below Partitioning Threshold	9
3177.76	5937.94	-52.4	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	-42.4	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	-32.4	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	-22.4	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	-10.4	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	-7.4	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	0.6	WMUA-14	Below Partitioning Threshold	9
3177.76	5937.94	4.6	WMUA-14	Below Partitioning Threshold	9
3263.76	6010.28	-124.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-114.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-104.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-94.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-84.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-74.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-64.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-54.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-44.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-34.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-32.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-22.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-12.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-12.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-5.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	-3.4	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	0.6	WMUA-15	Below Partitioning Threshold	9
3263.76	6010.28	4.6	WMUA-15	Below Partitioning Threshold	9
3335.95	6071.92	-112.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-102.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-92.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-82.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-72.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-62.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-52.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-42.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-32.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-22.65	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-12.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-10.4	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-7.65	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	-1.9	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	1.6	WMUA-16	Below Partitioning Threshold	9
3335.95	6071.92	4.6	WMUA-16	Below Partitioning Threshold	9
3463.99	6074.44	-102.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-92.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-82.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-72.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-62.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-49.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-41.9	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-32.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-22.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-15.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-12.4	WMUA-17	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3463.99	6074.44	-7.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	-2.4	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	1.6	WMUA-17	Below Partitioning Threshold	9
3463.99	6074.44	4.6	WMUA-17	Below Partitioning Threshold	9
3486.64	5981.12	-95.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-91.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-81.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-71.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-61.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-61.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-51.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-43.9	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-34.9	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-27.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-27.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-19.9	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-15.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-11.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-7.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-2.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	-2.4	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	0.1	WMUA-18	Below Partitioning Threshold	9
3486.64	5981.12	6.1	WMUA-18	Below Partitioning Threshold	9
3486.11	5901.23	-13.4	WMUA-19	Below Partitioning Threshold	9
3486.11	5901.23	-8.9	WMUA-19	Below Partitioning Threshold	9
3486.11	5901.23	-7.4	WMUA-19	Below Partitioning Threshold	9
3486.11	5901.23	-7.4	WMUA-19	Below Partitioning Threshold	9
3486.11	5901.23	1.6	WMUA-19	Below Partitioning Threshold	9
3486.11	5901.23	6.6	WMUA-19	Below Partitioning Threshold	9
3319.94	6052.8	3.6	WMUA-2	Below Partitioning Threshold	9
3319.94	6052.8	9.6	WMUA-2	Below Partitioning Threshold	9
3363.97	5987.98	-82.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-72.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-52.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-42.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-33.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-21.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-13.9	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	-4.4	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	3.6	WMUA-20	Below Partitioning Threshold	9
3363.97	5987.98	6.6	WMUA-20	Below Partitioning Threshold	9
3417.05	5990.66	-132.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-122.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-112.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-102.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-95.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-82.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-73.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-57.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-50.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-40.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-30.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-20.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-13.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	-4.4	WMUA-21	Below Partitioning Threshold	9
3417.05	5990.66	4.6	WMUA-21	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3417.05	5990.66	6.6	WMUA-21	Below Partitioning Threshold	9
3513.68	5931.11	-121.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-111.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-101.9	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-92.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-79.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-71.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-63.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-52.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-41.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-31.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-22.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-12.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	-3.4	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	6.6	WMUA-22	Below Partitioning Threshold	9
3513.68	5931.11	8.6	WMUA-22	Below Partitioning Threshold	9
3475.14	5821.41	-132.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-122.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-112.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-103.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-89.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-78.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-72.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-62.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-52.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-42.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-32.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-22.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-12.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-8.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	-2.4	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	4.6	WMUA-23	Below Partitioning Threshold	9
3475.14	5821.41	6.6	WMUA-23	Below Partitioning Threshold	9
3390.25	5819.95	-132.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-122.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-112.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-102.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-92.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-82.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-72.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-62.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-52.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-41.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-32.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-22.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-12.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	-3.4	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	5.6	WMUA-24	Below Partitioning Threshold	9
3390.25	5819.95	7.6	WMUA-24	Below Partitioning Threshold	9
3314.63	5823.29	-132.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-123.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-112.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-102.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-93.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-81.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-69.4	WMUA-25	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3314.63	5823.29	-62.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-51.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-42.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-32.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-23.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-12.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	-2.4	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	5.6	WMUA-25	Below Partitioning Threshold	9
3314.63	5823.29	7.6	WMUA-25	Below Partitioning Threshold	9
3225.01	5835.35	-92.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-82.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-72.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-61.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-52.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-33.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-22.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-12.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	-2.4	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	5.6	WMUA-26	Below Partitioning Threshold	9
3225.01	5835.35	7.6	WMUA-26	Below Partitioning Threshold	9
3147.33	5973.09	-142.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-122.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-112.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-102.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-92.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-82.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-72.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-62.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-52.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-42.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-32.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-22.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-12.4	WMUA-27	Below Partitioning Threshold	9
3147.33	5973.09	-2.4	WMUA-27	Below Partitioning Threshold	9
3211.49	6049.14	-142.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-132.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-122.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-112.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-102.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-94.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-92.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-84.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-82.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-74.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-72.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-64.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-54.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-44.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-42.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-34.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-32.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-24.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-22.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-14.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-12.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-7.9	WMUA-28	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3211.49	6049.14	-3.9	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-2.4	WMUA-28	Below Partitioning Threshold	9
3211.49	6049.14	-1.4	WMUA-28	Below Partitioning Threshold	9
3348.66	6134.62	-102.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-92.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-82.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-72.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-62.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-51.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-42.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-32.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-20.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-12.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	-3.4	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	5.6	WMUA-29	Below Partitioning Threshold	9
3348.66	6134.62	7.6	WMUA-29	Below Partitioning Threshold	9
3202.95	5977.43	1.35	WMUA-3	Below Partitioning Threshold	9
3202.95	5977.43	5.6	WMUA-3	Below Partitioning Threshold	9
3202.95	5977.43	9.6	WMUA-3	Below Partitioning Threshold	9
3455.99	6124.4	-164.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-154.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-144.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-134.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-124.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-114.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-104.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-94.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-84.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-74.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-64.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-54.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-44.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-34.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-24.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-14.4	WMUA-30	Below Partitioning Threshold	9
3455.99	6124.4	-4.4	WMUA-30	Below Partitioning Threshold	9
3493.27	6068.63	-164.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-154.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-144.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-134.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-124.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-114.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-104.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-94.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-84.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-74.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-64.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-54.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-44.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-34.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-24.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-14.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	-4.4	WMUA-31	Below Partitioning Threshold	9
3493.27	6068.63	5.6	WMUA-31	Below Partitioning Threshold	9
3552.43	5965.84	-164.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-154.4	WMUA-32	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3552.43	5965.84	-144.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-134.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-124.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-114.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-104.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-94.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-84.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-74.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-64.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-54.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-34.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-24.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-14.4	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-6.9	WMUA-32	Below Partitioning Threshold	9
3552.43	5965.84	-4.4	WMUA-32	Below Partitioning Threshold	9
3180.29	5868.6	-154.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-134.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-124.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-114.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-104.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-94.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-84.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-74.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-64.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-54.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-44.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-34.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-24.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-14.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	-4.4	WMUA-33	Below Partitioning Threshold	9
3180.29	5868.6	5.6	WMUA-33	Below Partitioning Threshold	9
3277.59	5981.37	1.9	WMUA-4	Below Partitioning Threshold	9
3272.12	5927.23	0.6	WMUA-5	Below Partitioning Threshold	9
3272.12	5927.23	5.6	WMUA-5	Below Partitioning Threshold	9
3272.12	5927.23	9.6	WMUA-5	Below Partitioning Threshold	9
3321.15	5927.66	-64.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-54.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-44.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-34.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-24.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-14.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-4.4	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	-0.15	WMUA-6	Below Partitioning Threshold	9
3321.15	5927.66	5.6	WMUA-6	Below Partitioning Threshold	9
3371.55	5929.9	-144.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-134.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-124.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-114.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-104.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-94.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-84.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-74.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-64.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-54.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-44.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-34.4	WMUA-7	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3371.55	5929.9	-24.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	-14.4	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	0.3	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	5.6	WMUA-7	Below Partitioning Threshold	9
3371.55	5929.9	9.6	WMUA-7	Below Partitioning Threshold	9
3435.52	5925.73	-132.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-122.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-112.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-102.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-92.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-82.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-72.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-62.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-52.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-42.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-32.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-22.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	-12.4	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	0.6	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	5.6	WMUA-8	Below Partitioning Threshold	9
3435.52	5925.73	9.6	WMUA-8	Below Partitioning Threshold	9
3479.43	5955.22	3.35	WMUA-9	Below Partitioning Threshold	9
3479.43	5955.22	9.6	WMUA-9	Below Partitioning Threshold	9
3973.2	5932.12	-9.7	WMUC-1	Below Partitioning Threshold	9
3973.2	5932.12	-4.4	WMUC-1	Below Partitioning Threshold	9
3973.2	5932.12	0.45	WMUC-1	Below Partitioning Threshold	9
3973.2	5932.12	4.8	WMUC-1	Below Partitioning Threshold	9
3967.01	5910.89	-9.9	WMUC-2	Below Partitioning Threshold	9
3967.01	5910.89	-5.4	WMUC-2	Below Partitioning Threshold	9
3967.01	5910.89	0.6	WMUC-2	Below Partitioning Threshold	9
3967.01	5910.89	4.2	WMUC-2	Below Partitioning Threshold	9
3983.92	5789.81	-8.9	WMUH-1	Below Partitioning Threshold	9
3983.92	5789.81	-3.9	WMUH-1	Below Partitioning Threshold	9
3983.92	5789.81	1.1	WMUH-1	Below Partitioning Threshold	9
3983.92	5789.81	6.2	WMUH-1	Below Partitioning Threshold	9
3983.92	5789.81	9.6	WMUH-1	Below Partitioning Threshold	9
3961.86	5731.8	-10.2	WMUH-2	Below Partitioning Threshold	9
3961.86	5731.8	-7.9	WMUH-2	Below Partitioning Threshold	9
3961.86	5731.8	-5.3	WMUH-2	Below Partitioning Threshold	9
3961.86	5731.8	0.6	WMUH-2	Below Partitioning Threshold	9
3961.86	5731.8	4.3	WMUH-2	Below Partitioning Threshold	9
3953.82	5697.87	-9.7	WMUH-3	Below Partitioning Threshold	9
3953.82	5697.87	-4.4	WMUH-3	Below Partitioning Threshold	9
3953.82	5697.87	0.45	WMUH-3	Below Partitioning Threshold	9
3953.82	5697.87	4.8	WMUH-3	Below Partitioning Threshold	9
3953.82	5697.87	9.6	WMUH-3	Below Partitioning Threshold	9
3190.44	4419.02	-11.92	709-BH-11	Below Partitioning Threshold	9
3190.44	4419.02	-2.92	709-BH-11	Below Partitioning Threshold	9
3190.44	4419.02	5.455	709-BH-11	Below Partitioning Threshold	9
3190.44	4419.02	9.33	709-BH-11	Below Partitioning Threshold	9
3601.67	4578.12	-16.47	709-MW15-15	Below Partitioning Threshold	9
3601.67	4578.12	6.53	709-MW15-15	Below Partitioning Threshold	9
3944.78	6070.07	-150.54	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-140.54	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-130.54	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-121.54	WMUR-05/83C	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3944.78	6070.07	-103.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-92.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-69.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-62.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-51.54	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-43.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-31.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-12.04	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-9.74	WMUR-05/83C	Below Partitioning Threshold	9
3944.78	6070.07	-2.54	WMUR-05/83C	Below Partitioning Threshold	9
3333.05	4349.73	-12.05	721-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	-5.05	721-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	5.95	721-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	7.2	721-BH-12	Below Partitioning Threshold	9
3841.41	4201.1	3.44	721-BH-03	Below Partitioning Threshold	9
3841.41	4201.1	10.44	721-BH-03	Below Partitioning Threshold	9
3829.37	4177.18	-63.56	721-MW11	Below Partitioning Threshold	9
3829.37	4177.18	-52.56	721-MW11	Below Partitioning Threshold	9
3829.37	4177.18	-13.56	721-MW11	Below Partitioning Threshold	9
3829.37	4177.18	-1.06	721-MW11	Below Partitioning Threshold	9
3196.51	4350.76	-12.07	721-BH-15	Below Partitioning Threshold	9
3196.51	4350.76	-6.57	721-BH-15	Below Partitioning Threshold	9
3196.51	4350.76	5.93	721-BH-15	Below Partitioning Threshold	9
3196.51	4350.76	7.18	721-BH-15	Below Partitioning Threshold	9
3212.74	4207.98	-12.08	721-BH-16	Below Partitioning Threshold	9
3212.74	4207.98	-6.58	721-BH-16	Below Partitioning Threshold	9
3212.74	4207.98	4.67	721-BH-16	Below Partitioning Threshold	9
3212.74	4207.98	10.67	721-BH-16	Below Partitioning Threshold	9
3964.74	4368.71	-12.09	721-BH-01	Below Partitioning Threshold	9
3964.74	4368.71	-8.09	721-BH-01	Below Partitioning Threshold	9
3964.74	4368.71	1.41	721-BH-01	Below Partitioning Threshold	9
3964.74	4368.71	7.41	721-BH-01	Below Partitioning Threshold	9
3944.83	6064.23	-121.59	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-106.59	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-101.09	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-93.39	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-78.39	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-67.09	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-12.19	EXT-7	Below Partitioning Threshold	9
3944.83	6064.23	-11.99	EXT-7	Below Partitioning Threshold	9
3736.82	6790.48	-169.09	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-164.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-127.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-120.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-118.09	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-108.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-103.09	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-98.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-86.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-77.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-67.09	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-58.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-48.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-38.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-28.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-18.59	H-01	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3736.82	6790.48	1.41	H-01	Below Partitioning Threshold	9
3992.69	5266.96	4.4	BH-3-96	Below Partitioning Threshold	9
3734.15	4482.66	-4.61	709-MW19-15	Below Partitioning Threshold	9
3734.15	4482.66	3.89	709-MW19-15	Below Partitioning Threshold	9
3601.18	4360.34	5.85	721-BH-05	Below Partitioning Threshold	9
3601.18	4360.34	8.35	721-BH-05	Below Partitioning Threshold	9
3896.4	4223.18	-12.19	721-BH-02	Below Partitioning Threshold	9
3896.4	4223.18	-5.69	721-BH-02	Below Partitioning Threshold	9
3896.4	4223.18	1.81	721-BH-02	Below Partitioning Threshold	9
3896.4	4223.18	7.81	721-BH-02	Below Partitioning Threshold	9
3517.12	4279.61	6.81	721-BH-08	Below Partitioning Threshold	9
3517.12	4279.61	8.31	721-BH-08	Below Partitioning Threshold	9
3313.76	4264.07	-12.19	721-BH-13	Below Partitioning Threshold	9
3313.76	4264.07	-5.19	721-BH-13	Below Partitioning Threshold	9
3313.76	4264.07	4.685	721-BH-13	Below Partitioning Threshold	9
3313.76	4264.07	6.81	721-BH-13	Below Partitioning Threshold	9
3992.96	5072.51	4.3	BH-1-96	Below Partitioning Threshold	9
3987.6	5394.33	7.3	BH-4-96	Below Partitioning Threshold	9
3909.7	6402.7	-160.41	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-153.01	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-125.31	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-116.51	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-115.72	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-110.21	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-101.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-92.21	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-83.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-73.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-63.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-53.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-43.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-33.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-23.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-13.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	-3.71	WMUR-06/94C	Below Partitioning Threshold	9
3909.7	6402.7	6.29	WMUR-06/94C	Below Partitioning Threshold	9
3186.03	4540.97	-12.22	709-BH-10	Below Partitioning Threshold	9
3186.03	4540.97	-5.22	709-BH-10	Below Partitioning Threshold	9
3186.03	4540.97	3.28	709-BH-10	Below Partitioning Threshold	9
3186.03	4540.97	6.78	709-BH-10	Below Partitioning Threshold	9
3333.05	4349.73	-13.28	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	-11.78	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	-7.28	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	-4.28	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	-2.78	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	2.22	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	2.97	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	6.22	709-BH-12	Below Partitioning Threshold	9
3333.05	4349.73	8.72	709-BH-12	Below Partitioning Threshold	9
3380.73	4264.89	4.7	721-BH-10	Below Partitioning Threshold	9
3380.73	4264.89	7.7	721-BH-10	Below Partitioning Threshold	9
3979.35	5453.8	7.2	BH-5-96	Below Partitioning Threshold	9
3988.55	5684.4	4.2	BH-8-96	Below Partitioning Threshold	9
3769.26	7104.02	-85.3	F-Shallow-New	Below Partitioning Threshold	9
3769.52	7098.87	-83.8	F-Shallow-Old	Below Partitioning Threshold	9
3412.35	4394.64	-12.32	709-BH-08	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3412.35	4394.64	-5.32	709-BH-08	Below Partitioning Threshold	9
3412.35	4394.64	4.18	709-BH-08	Below Partitioning Threshold	9
3412.35	4394.64	6.93	709-BH-08	Below Partitioning Threshold	9
3764.67	7098.9	-168.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-153.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-140.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-129.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-120.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-112.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-99.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-89.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-79.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-71.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-61.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-53.33	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-42.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-30.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-22.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-14.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-4.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	3.17	F-Deep	Below Partitioning Threshold	9
3764.64	7104.33	-128.85	F-Intermediate	Below Partitioning Threshold	9
3179.64	4126.97	-11.37	721-BH-18	Below Partitioning Threshold	9
3179.64	4126.97	-3.87	721-BH-18	Below Partitioning Threshold	9
3179.64	4126.97	3.63	721-BH-18	Below Partitioning Threshold	9
3179.64	4126.97	6.13	721-BH-18	Below Partitioning Threshold	9
3964.52	5816.44	4.1	BH-10-96	Below Partitioning Threshold	9
3407.65	4324.05	-1.42	721-BH-09	Below Partitioning Threshold	9
3407.65	4324.05	3.58	721-BH-09	Below Partitioning Threshold	9
3407.65	4324.05	8.58	721-BH-09	Below Partitioning Threshold	9
3436.07	4176.9	-12.46	721-BH-11	Below Partitioning Threshold	9
3436.07	4176.9	-5.46	721-BH-11	Below Partitioning Threshold	9
3436.07	4176.9	3.54	721-BH-11	Below Partitioning Threshold	9
3436.07	4176.9	7.54	721-BH-11	Below Partitioning Threshold	9
3587.67	4425.7	-12.49	709-BH-04	Below Partitioning Threshold	9
3587.67	4425.7	1.51	709-BH-04	Below Partitioning Threshold	9
3587.67	4425.7	4.01	709-BH-04	Below Partitioning Threshold	9
3587.67	4425.7	9.01	709-BH-04	Below Partitioning Threshold	9
3863.26	5719.47	-37.51	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	-30.51	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	-27.01	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	-18.51	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	-14.51	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	-12.01	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	-5.51	WMUG-14	Below Partitioning Threshold	9
3863.26	5719.47	1.49	WMUG-14	Below Partitioning Threshold	9
3761.45	4301.71	-12.53	721-BH-04	Below Partitioning Threshold	9
3761.45	4301.71	-5.53	721-BH-04	Below Partitioning Threshold	9
3761.45	4301.71	2.97	721-BH-04	Below Partitioning Threshold	9
3761.45	4301.71	6.97	721-BH-04	Below Partitioning Threshold	9
3287.76	4509.75	-12.58	709-BH-09	Below Partitioning Threshold	9
3287.76	4509.75	-6.58	709-BH-09	Below Partitioning Threshold	9
3287.76	4509.75	3.92	709-BH-09	Below Partitioning Threshold	9
3287.76	4509.75	6.545	709-BH-09	Below Partitioning Threshold	9
3978.7	5952.2	9.9	BH-13-96	Below Partitioning Threshold	9
3870.95	6046.9	-115.14	WMUR-07	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3870.95	6046.9	-111.64	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-107.94	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-100.64	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-96.14	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-80.64	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-75.64	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-62.14	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-53.14	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-43.14	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-36.14	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-28.14	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-18.64	WMUR-07	Below Partitioning Threshold	9
3870.95	6046.9	-7.64	WMUR-07	Below Partitioning Threshold	9
3898.58	5965.16	-114.17	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-107.37	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-83.67	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-69.67	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-68.17	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-60.17	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-57.67	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-42.17	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-33.17	WMUR-08	Below Partitioning Threshold	9
3898.58	5965.16	-15.67	WMUR-08	Below Partitioning Threshold	9
3688.85	4150.65	-12.7	721-BH-07	Below Partitioning Threshold	9
3688.85	4150.65	-5.7	721-BH-07	Below Partitioning Threshold	9
3688.85	4150.65	5.3	721-BH-07	Below Partitioning Threshold	9
3688.85	4150.65	7.3	721-BH-07	Below Partitioning Threshold	9
3971.84	6014.95	8.35	BH-14-96	Below Partitioning Threshold	9
3972.79	5581.73	1.8	BH-6-96	Below Partitioning Threshold	9
3982.44	5623.76	1.8	BH-7-96	Below Partitioning Threshold	9
3387.63	4563.3	-12.75	709-BH-06	Below Partitioning Threshold	9
3387.63	4563.3	-5.75	709-BH-06	Below Partitioning Threshold	9
3387.63	4563.3	0.25	709-BH-06	Below Partitioning Threshold	9
3387.63	4563.3	7.5	709-BH-06	Below Partitioning Threshold	9
3105.66	4364.69	-19.26	721-BH-17	Below Partitioning Threshold	9
3105.66	4364.69	-14.06	721-BH-17	Below Partitioning Threshold	9
3105.66	4364.69	-8.26	721-BH-17	Below Partitioning Threshold	9
3105.66	4364.69	-3.26	721-BH-17	Below Partitioning Threshold	9
3105.66	4364.69	1.24	721-BH-17	Below Partitioning Threshold	9
3105.66	4364.69	5.74	721-BH-17	Below Partitioning Threshold	9
3299.29	4143.13	-12.87	721-BH-14	Below Partitioning Threshold	9
3299.29	4143.13	-5.87	721-BH-14	Below Partitioning Threshold	9
3299.29	4143.13	3.13	721-BH-14	Below Partitioning Threshold	9
3299.29	4143.13	8.13	721-BH-14	Below Partitioning Threshold	9
3690.74	5605.95	-37.88	WMUG-13	Below Partitioning Threshold	9
3690.74	5605.95	-27.18	WMUG-13	Below Partitioning Threshold	9
3690.74	5605.95	-17.88	WMUG-13	Below Partitioning Threshold	9
3690.74	5605.95	-7.38	WMUG-13	Below Partitioning Threshold	9
3690.74	5605.95	1.62	WMUG-13	Below Partitioning Threshold	9
3972.6	6070	6.85	BH-15-96	Below Partitioning Threshold	9
3799.93	6470.18	-187.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-177.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-167.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-157.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-146.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-142.45	SB-B-DEEP	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3799.93	6470.18	-131.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-118.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-108.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-97.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-87.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-75.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-66.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-55.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-45.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-32.95	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-24.25	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-9.45	SB-B-DEEP	Below Partitioning Threshold	9
3464.22	4552.85	-12.96	709-BH-05	Below Partitioning Threshold	9
3464.22	4552.85	-6.96	709-BH-05	Below Partitioning Threshold	9
3464.22	4552.85	2.79	709-BH-05	Below Partitioning Threshold	9
3464.22	4552.85	6.04	709-BH-05	Below Partitioning Threshold	9
3414.38	4468.1	-12.96	709-BH-07	Below Partitioning Threshold	9
3414.38	4468.1	-4.96	709-BH-07	Below Partitioning Threshold	9
3414.38	4468.1	3.665	709-BH-07	Below Partitioning Threshold	9
3414.38	4468.1	6.165	709-BH-07	Below Partitioning Threshold	9
3974.59	5875.77	4.4	BH-11-96	Below Partitioning Threshold	9
3977.83	5927.95	4.4	BH-12-96	Below Partitioning Threshold	9
3153.43	7018.66	-160.11	G-Intermediate	Below Partitioning Threshold	9
3835.05	6293.03	-144.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-137.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-133.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-111.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-108.31	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-107.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-97.51	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-94.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-92.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-89.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-78.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-68.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-58.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-47.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-38.61	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-28.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-19.11	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	-7.21	WMUR-10	Below Partitioning Threshold	9
3835.05	6293.03	1.39	WMUR-10	Below Partitioning Threshold	9
3146.89	7018.33	-211.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-204.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-192.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-182.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-171.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-135.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-126.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-115.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-106.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-99.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-91.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-89.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-83.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-79.12	G	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3146.89	7018.33	-69.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-59.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-54.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-49.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-44.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-38.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-29.12	G	Below Partitioning Threshold	9
3146.89	7018.33	-19.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-5.62	G	Below Partitioning Threshold	9
3146.89	7018.33	1.38	G	Below Partitioning Threshold	9
3138.6	7018.62	-131.13	G-Shallow	Below Partitioning Threshold	9
3695.44	6095.28	-107.14	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-101.64	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-89.14	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-78.94	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-68.14	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-64.44	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-57.14	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-37.14	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	-18.64	WMUR-04	Below Partitioning Threshold	9
3695.44	6095.28	1.36	WMUR-04	Below Partitioning Threshold	9
3746.63	6097.42	-109.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-106.22	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-93.22	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-84.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-73.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-62.22	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-53.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-44.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-39.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-26.22	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-16.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	-4.72	WMUR-03	Below Partitioning Threshold	9
3746.63	6097.42	0.28	WMUR-03	Below Partitioning Threshold	9
3469.67	4473.94	4.5	709-MW13-15	Below Partitioning Threshold	9
4688.04	6525.28	-82.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-72.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-60.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-48.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-36.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-24.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-12.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-1.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	7.68	Pier25-32	Below Partitioning Threshold	9
3707.58	6177.9	-192.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-187.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-181.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-162.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-156.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-152.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-142.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-132.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-127.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-117.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-94.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-87.12	A	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3707.58	6177.9	-81.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-67.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-57.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-52.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-37.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-29.12	A	Below Partitioning Threshold	9
3707.58	6177.9	-18.62	A	Below Partitioning Threshold	9
3707.58	6177.9	-13.62	A	Below Partitioning Threshold	9
4858.12	5795	-70.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-60.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-50.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-40.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-31.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-20.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-10.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-0.65	5106-30	Below Partitioning Threshold	9
4005.68	5822.2	-49.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-44.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-38.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-34.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-29.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-24.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-19.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-14.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-9.96	PT-14	Below Partitioning Threshold	9
4005.68	5822.2	-4.96	PT-14	Below Partitioning Threshold	9
4856.82	5941.24	-93.12	WW-B4	Below Partitioning Threshold	9
4856.82	5941.24	-88.12	WW-B4	Below Partitioning Threshold	9
4856.82	5941.24	-83.12	WW-B4	Below Partitioning Threshold	9
4900.47	5668.49	-65.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-55.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-45.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-34.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-24.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-4.22	5106-31	Below Partitioning Threshold	9
4680.53	5841.54	-97.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-92.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-87.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-82.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-77.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-72.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-67.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-62.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-57.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-52.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-47.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-42.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-37.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-32.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-27.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-22.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-17.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-12.42	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-5.42	5106-26	Below Partitioning Threshold	9
4806.58	6070.76	-45.67	5106-29	Below Partitioning Threshold	9
4806.58	6070.76	-35.67	5106-29	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4806.58	6070.76	-16.67	5106-29	Below Partitioning Threshold	9
4806.58	6070.76	-7.67	5106-29	Below Partitioning Threshold	9
4792.79	6224.44	-55.9	5106-28	Below Partitioning Threshold	9
4792.79	6224.44	-45.9	5106-28	Below Partitioning Threshold	9
4792.79	6224.44	-35.9	5106-28	Below Partitioning Threshold	9
4792.79	6224.44	-25.9	5106-28	Below Partitioning Threshold	9
4678.07	6046.97	-67.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-57.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-47.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-37.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-27.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-22.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-17.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-7.72	5106-27	Below Partitioning Threshold	9
4027.66	5002.03	-26.32	NL-17	Below Partitioning Threshold	9
4027.66	5002.03	-20.32	NL-17	Below Partitioning Threshold	9
4004.24	5574.08	-56.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-51.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-45.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-41.46	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-36.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-31.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-26.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-21.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-16.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-12.46	PT-18	Below Partitioning Threshold	9
4026	4767.98	-35.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-32.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-29.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-26.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-23.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-20.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-17.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-14.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-11.87	NL-13	Below Partitioning Threshold	9
4026	4767.98	-8.87	NL-13	Below Partitioning Threshold	9
4036.19	4917.03	-35.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-32.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-29.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-26.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-23.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-21.37	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-17.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-14.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-11.87	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-8.87	NL-15	Below Partitioning Threshold	9
4529.5	5842.99	-106.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-101.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-96.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-91.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-86.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-81.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-76.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-71.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-66.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-61.52	5106-24	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4529.5	5842.99	-56.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-51.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-46.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-41.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-36.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-31.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-26.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-21.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-16.52	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-11.52	5106-24	Below Partitioning Threshold	9
4633.16	5710.77	-89.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-79.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-69.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-59.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-49.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-39.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-29.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-19.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-9.52	5106-25	Below Partitioning Threshold	9
4528.95	6045.54	-51.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-46.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-41.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-36.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-31.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-26.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-21.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-16.92	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-9.92	5106-23	Below Partitioning Threshold	9
4013.98	4548.94	-31.22	NL-28	Below Partitioning Threshold	9
4013.98	4548.94	-26.22	NL-28	Below Partitioning Threshold	9
4013.98	4548.94	-21.22	NL-28	Below Partitioning Threshold	9
4013.98	4548.94	-16.22	NL-28	Below Partitioning Threshold	9
4035.79	4848.44	-39.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-36.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-33.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-30.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-27.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-24.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-21.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-18.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-15.17	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-11.42	NL-14	Below Partitioning Threshold	9
4017.91	4485.93	-32.32	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-27.32	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-22.32	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-17.32	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-12.32	NL-29	Below Partitioning Threshold	9
4588.03	6814.02	-105.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-95.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-85.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-75.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-65.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-55.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-45.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-35.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-25.92	Pier25-29	Below Partitioning Threshold	9

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 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4588.03	6814.02	-15.92	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-13.92	Pier25-29	Below Partitioning Threshold	9
4579.22	6662.11	-74.42	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-64.42	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-54.42	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-44.42	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-34.42	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-24.42	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-14.42	Pier25-28	Below Partitioning Threshold	9
4483.85	6362.39	-106.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-96.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-86.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-76.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-66.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-56.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-46.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-36.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-26.52	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-16.52	Pier25-26	Below Partitioning Threshold	9
4589.88	6359.26	-105.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-85.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-75.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-55.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-45.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-35.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-25.12	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-15.12	Pier25-30	Below Partitioning Threshold	9
4036.75	5091.63	-39.07	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-36.07	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-33.07	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-30.07	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-21.07	NL-23	Below Partitioning Threshold	9
4027.3	4673.19	-36.32	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-33.32	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-30.32	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-27.32	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-24.32	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-21.32	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-16.32	NL-16	Below Partitioning Threshold	9
4046.79	6117.02	-65.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-61.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-55.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-50.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-46.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-43.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-35.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-31.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-25.96	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-20.96	PT-11	Below Partitioning Threshold	9
4065.25	5898.08	-20.72	5106 T5-100	Below Partitioning Threshold	9
4065.25	5898.08	-18.67	5106 T5-100	Below Partitioning Threshold	9
4461.71	6655.52	-99.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-89.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-79.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-69.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-59.42	Pier25-22	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4461.71	6655.52	-49.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-39.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-29.42	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-19.82	Pier25-22	Below Partitioning Threshold	9
4053.48	5715.7	-67.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-62.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-56.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-52.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-47.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-42.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-27.96	PT-15	Below Partitioning Threshold	9
4053.48	5715.7	-22.96	PT-15	Below Partitioning Threshold	9
4046.69	5711.89	-85.82	PT-15A	Below Partitioning Threshold	9
4051.5	6260.89	-68.46	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-63.96	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-60.46	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-55.46	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-48.96	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-44.46	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-38.96	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-34.46	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-29.96	PT-10	Below Partitioning Threshold	9
4051.5	6260.89	-26.46	PT-10	Below Partitioning Threshold	9
4704.2	5595.32	-71.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-51.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-41.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-31.82	5106-32	Below Partitioning Threshold	9
4045.35	5877.97	-49.23	PT-13A	Below Partitioning Threshold	9
4049.34	4592.92	-48.22	NL-26	Below Partitioning Threshold	9
4049.34	4592.92	-43.22	NL-26	Below Partitioning Threshold	9
4049.34	4592.92	-38.22	NL-26	Below Partitioning Threshold	9
4049.34	4592.92	-33.22	NL-26	Below Partitioning Threshold	9
4049.34	4592.92	-28.22	NL-26	Below Partitioning Threshold	9
4104.18	4529.09	-51.07	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-46.07	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-41.07	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-36.07	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-31.07	NL-30	Below Partitioning Threshold	9
4092.11	5830.69	-30.67	5106 T5-175	Below Partitioning Threshold	9
4058.9	5558.28	-79.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-74.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-74.46	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-68.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-65.46	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-59.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-54.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-48.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-44.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-44.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-39.96	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-39.46	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-36.21	PT-17	Below Partitioning Threshold	9
4058.9	5558.28	-34.96	PT-17	Below Partitioning Threshold	9
4072.92	4870.47	-52.21	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-47.21	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-42.21	NL-24	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4072.92	4870.47	-37.21	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-32.21	NL-24	Below Partitioning Threshold	9
4066.16	5415.12	-131.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-126.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-121.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-116.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-111.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-106.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-101.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-96.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-91.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-86.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-81.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-76.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-71.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-66.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-61.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-56.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-51.52	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-46.52	5106-8	Below Partitioning Threshold	9
4083.13	5756.98	-39.82	5106 T5-250	Below Partitioning Threshold	9
4083.13	5756.98	-34.02	5106 T5-250	Below Partitioning Threshold	9
4076.51	4698.56	-55.32	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-50.32	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-45.32	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-40.32	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-35.32	NL-25	Below Partitioning Threshold	9
4105.9	5959.28	-39.27	5106 T4-50	Below Partitioning Threshold	9
4105.9	5959.28	-36.67	5106 T4-50	Below Partitioning Threshold	9
4074.16	5430.19	-37.57	5106 T5-550	Below Partitioning Threshold	9
4074.16	5430.19	-35.27	5106 T5-550	Below Partitioning Threshold	9
4055.44	5868.4	-84.7	PT-13	Below Partitioning Threshold	9
4055.44	5868.4	-80.2	PT-13	Below Partitioning Threshold	9
4055.44	5868.4	-74.7	PT-13	Below Partitioning Threshold	9
4055.44	5868.4	-65.7	PT-13	Below Partitioning Threshold	9
4055.44	5868.4	-59.2	PT-13	Below Partitioning Threshold	9
4055.44	5868.4	-43.7	PT-13	Below Partitioning Threshold	9
4055.44	5868.4	-39.2	PT-13	Below Partitioning Threshold	9
4151.07	6178.51	-38.47	5106 T1-175	Below Partitioning Threshold	9
4151.07	6178.51	-37.02	5106 T1-175	Below Partitioning Threshold	9
4151.07	6178.51	-35.82	5106 T1-175	Below Partitioning Threshold	9
4147.88	6242.91	-38.77	5106 T1-250	Below Partitioning Threshold	9
4147.88	6242.91	-36.82	5106 T1-250	Below Partitioning Threshold	9
4170.78	6402.89	-43.72	5106 T1-400	Below Partitioning Threshold	9
4170.78	6402.89	-42.22	5106 T1-400	Below Partitioning Threshold	9
4170.78	6402.89	-39.62	5106 T1-400	Below Partitioning Threshold	9
4170.78	6402.89	-36.62	5106 T1-400	Below Partitioning Threshold	9
4062.66	5946.55	-37.22	5106 T5-50	Below Partitioning Threshold	9
4431.29	5647.55	-136.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-116.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-106.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-96.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-86.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-76.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-66.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-56.52	5106-22	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4431.29	5647.55	-46.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-38.52	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-36.52	5106-22	Below Partitioning Threshold	9
4415.64	6517.66	-137.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-127.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-117.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-107.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-97.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-87.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-77.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-67.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-57.22	Pier25-20	Below Partitioning Threshold	9
4135.88	6142.19	-43.42	5106 T1-100	Below Partitioning Threshold	9
4135.88	6142.19	-37.62	5106 T1-100	Below Partitioning Threshold	9
4154.7	6553	-39.67	5106 T1-550	Below Partitioning Threshold	9
4154.7	6553	-37.72	5106 T1-550	Below Partitioning Threshold	9
4414.64	6367.75	-151.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-141.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-131.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-121.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-111.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-101.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-91.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-81.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-71.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-61.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-51.82	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-41.82	Pier25-24	Below Partitioning Threshold	9
4410.74	6652.1	-107.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-97.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-87.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-87.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-77.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-77.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-67.22	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-67.22	Pier25-15	Below Partitioning Threshold	9
4145.87	6481.74	-44.32	5106 T1-475	Below Partitioning Threshold	9
4145.87	6481.74	-41.82	5106 T1-475	Below Partitioning Threshold	9
4145.87	6481.74	-39.32	5106 T1-475	Below Partitioning Threshold	9
4088.88	6054.85	-39.02	5106 T1-50	Below Partitioning Threshold	9
4161.34	6062.91	-40.32	5106 T2-100	Below Partitioning Threshold	9
4161.34	6062.91	-38.32	5106 T2-100	Below Partitioning Threshold	9
4133.48	5989.14	-39.97	5106 T3-50	Below Partitioning Threshold	9
4133.48	5989.14	-38.12	5106 T3-50	Below Partitioning Threshold	9
4405.01	6778.79	-99.32	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-89.32	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-79.32	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-69.32	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-59.32	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-49.32	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-39.32	Pier25-21	Below Partitioning Threshold	9
4125.02	6026.5	-38.82	5106 T2-50	Below Partitioning Threshold	9
4156.72	5875.36	-41.12	5106 T4-140	Below Partitioning Threshold	9
4156.72	5875.36	-39.22	5106 T4-140	Below Partitioning Threshold	9
4015.47	5983.5	-88.26	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-83.76	PT-12	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4015.47	5983.5	-78.76	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-73.76	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-69.26	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-64.26	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-58.76	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-54.26	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-49.26	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-43.76	PT-12	Below Partitioning Threshold	9
4191.54	6084.28	-41.87	5106 T2-140	Below Partitioning Threshold	9
4191.54	6084.28	-40.22	5106 T2-140	Below Partitioning Threshold	9
4221.23	6100.19	-40.47	5106 T2-175	Below Partitioning Threshold	9
4175.95	5988.85	-40.82	5106 T3-100	Below Partitioning Threshold	9
4184.42	5861.79	-40.87	5106 T4-175	Below Partitioning Threshold	9
4184.42	5861.79	-40.07	5106 T4-175	Below Partitioning Threshold	9
4184.42	5861.79	-39.62	5106 T4-175	Below Partitioning Threshold	9
4404.82	6198.18	-130.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-120.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-110.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-101.42	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-91.42	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-80.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-70.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-60.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-50.92	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-40.92	Pier25-25	Below Partitioning Threshold	9
4138.36	5905.95	-44.37	5106 T4-100	Below Partitioning Threshold	9
4171.03	6502.01	-90	WW-A1R	Below Partitioning Threshold	9
4171.03	6502.01	-82.5	WW-A1R	Below Partitioning Threshold	9
4400.99	6048.31	-135.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-130.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-125.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-120.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-115.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-110.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-105.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-100.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-95.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-90.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-85.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-80.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-75.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-70.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-65.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-60.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-55.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-50.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-45.32	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-42.32	5106-20	Below Partitioning Threshold	9
4259.16	6199.12	-153.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-143.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-123.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-113.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-103.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-93.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-83.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-73.82	Pier25-18	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4259.16	6199.12	-63.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-53.82	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-43.82	Pier25-18	Below Partitioning Threshold	9
4331.66	6046.61	-144.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-139.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-134.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-129.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-124.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-119.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-114.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-109.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-104.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-99.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-94.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-89.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-84.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-79.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-74.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-69.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-64.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-59.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-54.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-49.02	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-44.02	5106-13	Below Partitioning Threshold	9
4328.35	6673.94	-137.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-127.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-117.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-107.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-97.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-87.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-77.2	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-67.2	Pier25-11	Below Partitioning Threshold	9
4100.06	6988.8	-119.42	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-109.42	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-99.42	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-89.42	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-79.42	Pier25-4	Below Partitioning Threshold	9
4252.04	6590.31	-158.49	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-148.49	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-138.49	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-128.49	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-118.49	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-108.49	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-98.49	Pier25-10	Below Partitioning Threshold	9
4100.56	6669.14	-178.52	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-168.52	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-158.52	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-148.52	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-138.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-128.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-118.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-108.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-98.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-88.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-78.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-68.27	Pier25-2	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4100.56	6669.14	-58.27	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-48.27	Pier25-2	Below Partitioning Threshold	9
4177.68	6671.43	-158.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-148.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-138.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-128.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-118.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-108.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-98.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-88.52	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-83.62	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-73.62	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-63.62	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-53.62	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-43.12	Pier25-6	Below Partitioning Threshold	9
4099.69	6790.79	-99.42	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-89.42	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-79.42	Pier25-3	Below Partitioning Threshold	9
4329.27	6511.98	-147.22	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-137.22	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-127.22	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-117.22	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-57.22	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-49.82	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-44.82	Pier25-16	Below Partitioning Threshold	9
4324.61	6792.81	-107.22	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-97.22	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-87.22	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-77.22	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-67.22	Pier25-14	Below Partitioning Threshold	9
4148.18	5988.06	-47.07	5106 T3-75	Below Partitioning Threshold	9
4148.18	5988.06	-44.77	5106 T3-75	Below Partitioning Threshold	9
4148.18	5988.06	-43.12	5106 T3-75	Below Partitioning Threshold	9
4256.67	6044.99	-140.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-135.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-130.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-125.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-120.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-115.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-110.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-105.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-100.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-95.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-90.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-85.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-80.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-75.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-70.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-65.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-60.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-55.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-50.42	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-45.42	5106-9	Below Partitioning Threshold	9
4251.95	6672.35	-167.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-157.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-147.42	Pier25-8	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4251.95	6672.35	-137.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-127.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-117.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-107.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-97.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-87.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-77.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-67.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-57.42	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-47.42	Pier25-8	Below Partitioning Threshold	9
4151.01	6509.2	-167.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-157.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-147.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-137.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-127.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-117.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-107.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-97.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-87.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-77.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-67.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-57.62	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-47.62	HYD-1	Below Partitioning Threshold	9
4328.24	6360.66	-146.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-136.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-126.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-116.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-106.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-96.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-86.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-76.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-66.52	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-56.52	Pier25-19	Below Partitioning Threshold	9
4254.07	5840.65	-96.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-91.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-86.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-81.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-76.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-71.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-66.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-61.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-56.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-51.22	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-46.22	5106-10	Below Partitioning Threshold	9
4329.78	5842.96	-111.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-106.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-101.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-96.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-91.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-86.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-81.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-76.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-71.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-66.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-61.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-56.32	5106-14	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4329.78	5842.96	-51.32	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-46.32	5106-14	Below Partitioning Threshold	9
4401.9	5841.8	-129.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-124.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-119.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-114.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-109.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-104.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-99.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-94.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-89.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-84.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-79.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-79.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-74.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-69.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-64.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-59.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-54.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-49.92	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-44.92	5106-21	Below Partitioning Threshold	9
4251.1	6356.95	-148.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-138.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-128.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-118.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-108.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-98.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-88.52	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-80.32	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-70.32	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-60.32	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-50.92	Pier25-17	Below Partitioning Threshold	9
4098.78	6909.61	-129.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-119.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-109.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-99.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-89.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-79.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-69.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-59.17	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-45.67	Pier25-1	Below Partitioning Threshold	9
4099.37	6507.91	-153.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-143.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-133.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-123.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-113.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-103.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-93.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-83.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-73.12	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-63.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-53.12	HYD-2	Below Partitioning Threshold	9
4258.21	5614.99	-147.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-142.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-137.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-132.32	5106-11	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4258.21	5614.99	-127.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-122.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-117.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-112.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-107.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-102.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-97.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-92.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-87.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-82.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-77.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-72.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-67.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-62.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-57.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-52.32	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-47.32	5106-11	Below Partitioning Threshold	9
4332.11	5724.12	-85.92	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-75.92	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-65.92	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-55.92	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-45.92	5106-19	Below Partitioning Threshold	9
4120.36	5866.22	-54.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-53.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-52.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-51.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-50.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-49.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-48.28	PT-5	Below Partitioning Threshold	9
4120.36	5866.22	-47.28	PT-5	Below Partitioning Threshold	9
4117.52	5488.08	-54.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-53.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-52.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-51.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-50.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-49.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-48.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-47.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-46.97	PT-9	Below Partitioning Threshold	9
4117.52	5488.08	-45.97	PT-9	Below Partitioning Threshold	9
4149.14	5588.94	-55.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-54.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-53.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-52.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-50.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-49.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-48.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-47.17	PT-8	Below Partitioning Threshold	9
4149.14	5588.94	-46.17	PT-8	Below Partitioning Threshold	9
4249.62	6791.2	-128.42	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-118.42	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-108.42	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-98.42	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-88.42	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-78.42	Pier25-9	Below Partitioning Threshold	9
4136.54	6357.39	-127.02	Pier25-12	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4136.54	6357.39	-117.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-107.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-97.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-87.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-77.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-67.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-57.02	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-47.02	Pier25-12	Below Partitioning Threshold	9
4167.4	6138.76	-56.97	PT-2	Below Partitioning Threshold	9
4167.4	6138.76	-55.97	PT-2	Below Partitioning Threshold	9
4167.4	6138.76	-51.97	PT-2	Below Partitioning Threshold	9
4124.91	5767.59	-57.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-56.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-55.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-54.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-53.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-52.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-51.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-50.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-49.11	PT-6	Below Partitioning Threshold	9
4124.91	5767.59	-48.11	PT-6	Below Partitioning Threshold	9
4157.94	6005.75	-62.17	PT-4	Below Partitioning Threshold	9
4157.94	6005.75	-61.17	PT-4	Below Partitioning Threshold	9
4157.94	6005.75	-60.17	PT-4	Below Partitioning Threshold	9
4157.94	6005.75	-59.17	PT-4	Below Partitioning Threshold	9
4157.94	6005.75	-58.17	PT-4	Below Partitioning Threshold	9
4157.94	6005.75	-57.17	PT-4	Below Partitioning Threshold	9
4157.94	6005.75	-56.17	PT-4	Below Partitioning Threshold	9
4090.84	6090.88	-57.27	PT-3	Below Partitioning Threshold	9
4090.84	6090.88	-56.27	PT-3	Below Partitioning Threshold	9
4090.84	6090.88	-55.27	PT-3	Below Partitioning Threshold	9
4090.84	6090.88	-54.27	PT-3	Below Partitioning Threshold	9
4090.84	6090.88	-53.27	PT-3	Below Partitioning Threshold	9
4090.84	6090.88	-52.27	PT-3	Below Partitioning Threshold	9
4173.82	6914.06	-115.42	Pier25-5	Below Partitioning Threshold	9
4173.82	6914.06	-109.42	Pier25-5	Below Partitioning Threshold	9
4173.82	6914.06	-99.42	Pier25-5	Below Partitioning Threshold	9
4173.82	6914.06	-89.42	Pier25-5	Below Partitioning Threshold	9
4173.82	6914.06	-80.92	Pier25-5	Below Partitioning Threshold	9
4141.26	5423.81	-130.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-125.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-120.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-115.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-110.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-105.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-100.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-95.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-90.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-85.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-80.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-75.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-70.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-65.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-60.05	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-55.05	5106-7	Below Partitioning Threshold	9
4175.4	6793.1	-178.52	Pier25-7	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4175.4	6793.1	-168.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-158.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-148.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-138.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-128.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-118.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-108.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-98.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-88.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-78.52	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-68.52	Pier25-7	Below Partitioning Threshold	9
4153.61	5838.03	-163.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-158.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-153.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-148.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-143.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-138.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-133.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-128.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-84.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-78.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-74.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-68.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-63.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-58.32	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-53.32	5106-3	Below Partitioning Threshold	9
4181.81	5613.39	-128.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-123.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-118.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-113.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-108.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-103.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-98.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-93.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-88.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-83.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-78.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-68.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-63.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-58.42	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-53.42	5106-5	Below Partitioning Threshold	9
4179.64	6048.35	-144.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-139.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-134.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-129.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-124.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-119.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-114.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-109.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-104.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-99.62	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-95.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-90.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-85.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-80.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-70.12	5106-1	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4179.64	6048.35	-65.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-60.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-56.12	5106-1	Below Partitioning Threshold	9
4123.62	5669.3	-93.75	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-88.25	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-83.25	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-78.75	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-73.25	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-67.5	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-63.25	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-58.25	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-53.75	PT-16	Below Partitioning Threshold	9
4181.53	5508.73	-152.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-147.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-142.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-137.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-132.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-127.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-122.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-117.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-112.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-107.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-102.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-97.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-92.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-87.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-82.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-77.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-72.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-67.92	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-57.92	5106-6	Below Partitioning Threshold	9
4140.31	6196.79	-170.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-160.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-150.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-140.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-130.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-120.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-110.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-100.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-90.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-80.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-70.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-60.12	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-50.12	Pier25-13	Below Partitioning Threshold	9
4121.89	5664.5	-59.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-58.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-57.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-56.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-55.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-54.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-53.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-51.6	PT-7	Below Partitioning Threshold	9
4121.89	5664.5	-50.6	PT-7	Below Partitioning Threshold	9
4118.59	5990.64	-155.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-145.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-135.92	5106-2	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4118.59	5990.64	-125.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-115.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-105.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-95.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-85.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-75.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-65.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-55.92	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-51.92	5106-2	Below Partitioning Threshold	9
3403.27	5903.8	-53.15	WMUA-41	negative dye test	9
3403.27	5903.8	-50.65	WMUA-41	negative dye test	9
3403.27	5903.8	-49.65	WMUA-41	negative dye test	9
3490.4	5797.78	-97.07	WMUG-04/21C	negative dye test	9
3490.4	5797.78	-95.57	WMUG-04/21C	negative dye test	9
3490.4	5797.78	-94.57	WMUG-04/21C	negative dye test	9
3490.4	5797.78	-69.57	WMUG-04/21C	negative dye test	9
3490.4	5797.78	-12.07	WMUG-04/21C	negative dye test	9
3490.4	5797.78	-7.07	WMUG-04/21C	negative dye test	9
3490.4	5797.78	-4.57	WMUG-04/21C	negative dye test	9
3460.98	5958.26	-5.23	WMUA-40	negative dye test	9
3460.98	5958.26	-4.23	WMUA-40	negative dye test	9
3460.98	5958.26	-3.23	WMUA-40	negative dye test	9
3460.98	5958.26	0.77	WMUA-40	negative dye test	9
3656.53	5856.41	-47.23	WMUG-01	negative dye test	9
3656.53	5856.41	-44.73	WMUG-01	negative dye test	9
3656.53	5856.41	-42.23	WMUG-01	negative dye test	9
3656.53	5856.41	-39.73	WMUG-01	negative dye test	9
3656.53	5856.41	-37.23	WMUG-01	negative dye test	9
3656.53	5856.41	-32.23	WMUG-01	negative dye test	9
3656.53	5856.41	-29.73	WMUG-01	negative dye test	9
3656.53	5856.41	-27.23	WMUG-01	negative dye test	9
3656.53	5856.41	-24.73	WMUG-01	negative dye test	9
3656.53	5856.41	-22.23	WMUG-01	negative dye test	9
3656.53	5856.41	-19.73	WMUG-01	negative dye test	9
3656.53	5856.41	-17.23	WMUG-01	negative dye test	9
3656.53	5856.41	-14.73	WMUG-01	negative dye test	9
3656.53	5856.41	-12.23	WMUG-01	negative dye test	9
3656.53	5856.41	-9.73	WMUG-01	negative dye test	9
3656.53	5856.41	-8.73	WMUG-01	negative dye test	9
3656.53	5856.41	-7.23	WMUG-01	negative dye test	9
3656.53	5856.41	-5.23	WMUG-01	negative dye test	9
3212.16	5809.44	-187.33	89C	negative dye test	9
3212.16	5809.44	-177.33	89C	negative dye test	9
3212.16	5809.44	-167.33	89C	negative dye test	9
3212.16	5809.44	-152.33	89C	negative dye test	9
3212.16	5809.44	-144.83	89C	negative dye test	9
3212.16	5809.44	-134.83	89C	negative dye test	9
3212.16	5809.44	-126.33	89C	negative dye test	9
3212.16	5809.44	-119.83	89C	negative dye test	9
3212.16	5809.44	-72.33	89C	negative dye test	9
3212.16	5809.44	-69.83	89C	negative dye test	9
3212.16	5809.44	-67.33	89C	negative dye test	9
3212.16	5809.44	-64.83	89C	negative dye test	9
3212.16	5809.44	-62.33	89C	negative dye test	9
3212.16	5809.44	-57.33	89C	negative dye test	9
3212.16	5809.44	-37.33	89C	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3212.16	5809.44	-34.83	89C	negative dye test	9
3212.16	5809.44	-32.33	89C	negative dye test	9
3212.16	5809.44	-29.83	89C	negative dye test	9
3212.16	5809.44	-27.33	89C	negative dye test	9
3212.16	5809.44	-24.83	89C	negative dye test	9
3212.16	5809.44	-17.33	89C	negative dye test	9
3212.84	5951.1	-2.36	WMUA-36	negative dye test	9
3606.65	6586.76	-3.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-101.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-103.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-106.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-108.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-113.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-116.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-118.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-121.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-123.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-126.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-128.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-131.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-133.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-136.17	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-138.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-148.67	EXT-9-DEEP	negative dye test	9
3606.65	6586.76	-153.67	EXT-9-DEEP	negative dye test	9
3603.02	6586.62	-118.69	EXT-9-INTERMEDIATE	negative dye test	9
3615.52	5715.46	-37.58	WMUG-11	negative dye test	9
3615.52	5715.46	-14.58	WMUG-11	negative dye test	9
3615.52	5715.46	-9.08	WMUG-11	negative dye test	9
3615.52	5715.46	-7.58	WMUG-11	negative dye test	9
3615.52	5715.46	-5.58	WMUG-11	negative dye test	9
3615.52	5715.46	-3.58	WMUG-11	negative dye test	9
3762.19	5861.43	-50.1	WMUG-05	negative dye test	9
3762.19	5861.43	-47.6	WMUG-05	negative dye test	9
3762.19	5861.43	-45.1	WMUG-05	negative dye test	9
3762.19	5861.43	-42.6	WMUG-05	negative dye test	9
3762.19	5861.43	-40.1	WMUG-05	negative dye test	9
3762.19	5861.43	-37.6	WMUG-05	negative dye test	9
3762.19	5861.43	-35.1	WMUG-05	negative dye test	9
3762.19	5861.43	-30.1	WMUG-05	negative dye test	9
3762.19	5861.43	-17.6	WMUG-05	negative dye test	9
3762.19	5861.43	-15.1	WMUG-05	negative dye test	9
3762.19	5861.43	-6.1	WMUG-05	negative dye test	9
3762.19	5861.43	-5.1	WMUG-05	negative dye test	9
3142.19	5979.52	-62.12	WMUA-34	negative dye test	9
3142.19	5979.52	-59.62	WMUA-34	negative dye test	9
3142.19	5979.52	-56.12	WMUA-34	negative dye test	9
3142.19	5979.52	-53.62	WMUA-34	negative dye test	9
3142.19	5979.52	-52.12	WMUA-34	negative dye test	9
3142.19	5979.52	-50.12	WMUA-34	negative dye test	9
3142.19	5979.52	-46.12	WMUA-34	negative dye test	9
3142.19	5979.52	-44.12	WMUA-34	negative dye test	9
3142.19	5979.52	-39.62	WMUA-34	negative dye test	9
3142.19	5979.52	-32.62	WMUA-34	negative dye test	9
3142.19	5979.52	-28.12	WMUA-34	negative dye test	9
3142.19	5979.52	-19.12	WMUA-34	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3142.19	5979.52	-11.62	WMUA-34	negative dye test	9
3142.19	5979.52	-9.12	WMUA-34	negative dye test	9
3142.19	5979.52	-6.62	WMUA-34	negative dye test	9
3142.19	5979.52	-5.12	WMUA-34	negative dye test	9
3142.19	5979.52	-4.62	WMUA-34	negative dye test	9
3596.13	5826.14	-57.58	WMUG-02	negative dye test	9
3596.13	5826.14	-47.68	WMUG-02	negative dye test	9
3596.13	5826.14	-42.68	WMUG-02	negative dye test	9
3596.13	5826.14	-25.18	WMUG-02	negative dye test	9
3609.42	6282.61	-62.25	11-75	negative dye test	9
3609.42	6282.61	-60.25	11-75	negative dye test	9
3609.42	6282.61	-52.75	11-75	negative dye test	9
3609.42	6282.61	-50.25	11-75	negative dye test	9
3609.42	6282.61	-46.25	11-75	negative dye test	9
3609.42	6282.61	-43.75	11-75	negative dye test	9
3609.42	6282.61	-3.75	11-75	negative dye test	9
3297.62	6020.09	-35.28	WMUA-38	negative dye test	9
3297.62	6020.09	-32.78	WMUA-38	negative dye test	9
3297.62	6020.09	-27.78	WMUA-38	negative dye test	9
3297.62	6020.09	-22.78	WMUA-38	negative dye test	9
3727.84	5863.44	-52.83	WMUG-07	negative dye test	9
3727.84	5863.44	-50.33	WMUG-07	negative dye test	9
3727.84	5863.44	-47.83	WMUG-07	negative dye test	9
3727.84	5863.44	-45.33	WMUG-07	negative dye test	9
3727.84	5863.44	-42.83	WMUG-07	negative dye test	9
3727.84	5863.44	-40.33	WMUG-07	negative dye test	9
3727.84	5863.44	-37.83	WMUG-07	negative dye test	9
3727.84	5863.44	-35.83	WMUG-07	negative dye test	9
3727.84	5863.44	-35.33	WMUG-07	negative dye test	9
3727.84	5863.44	-32.83	WMUG-07	negative dye test	9
3727.84	5863.44	-30.33	WMUG-07	negative dye test	9
3727.84	5863.44	-27.83	WMUG-07	negative dye test	9
3727.84	5863.44	-25.33	WMUG-07	negative dye test	9
3727.84	5863.44	-20.33	WMUG-07	negative dye test	9
3727.84	5863.44	-15.33	WMUG-07	negative dye test	9
3727.84	5863.44	-6.33	WMUG-07	negative dye test	9
3727.84	5863.44	-5.33	WMUG-07	negative dye test	9
3727.84	5863.44	-4.33	WMUG-07	negative dye test	9
3635.3	5939.96	-37.96	WMUG-12	negative dye test	9
3635.3	5939.96	-35.46	WMUG-12	negative dye test	9
3635.3	5939.96	-32.96	WMUG-12	negative dye test	9
3635.3	5939.96	-30.46	WMUG-12	negative dye test	9
3635.3	5939.96	-25.46	WMUG-12	negative dye test	9
3635.3	5939.96	-21.96	WMUG-12	negative dye test	9
3635.3	5939.96	-18.96	WMUG-12	negative dye test	9
3635.3	5939.96	-9.46	WMUG-12	negative dye test	9
3635.3	5939.96	-6.46	WMUG-12	negative dye test	9
3635.3	5939.96	-2.96	WMUG-12	negative dye test	9
3635.3	5939.96	-0.46	WMUG-12	negative dye test	9
3635.3	5939.96	4.54	WMUG-12	negative dye test	9
3635.3	5939.96	5.04	WMUG-12	negative dye test	9
3065.01	5961.29	-59.54	WMUA-35	negative dye test	9
3065.01	5961.29	-57.04	WMUA-35	negative dye test	9
3065.01	5961.29	-55.54	WMUA-35	negative dye test	9
3065.01	5961.29	-52.04	WMUA-35	negative dye test	9
3065.01	5961.29	-47.04	WMUA-35	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3065.01	5961.29	-43.54	WMUA-35	negative dye test	9
3065.01	5961.29	-37.54	WMUA-35	negative dye test	9
3065.01	5961.29	-34.04	WMUA-35	negative dye test	9
3065.01	5961.29	-32.04	WMUA-35	negative dye test	9
3065.01	5961.29	-9.04	WMUA-35	negative dye test	9
3065.01	5961.29	-7.54	WMUA-35	negative dye test	9
3705.51	5808.61	-45.57	WMUG-06	negative dye test	9
3705.51	5808.61	-38.07	WMUG-06	negative dye test	9
3705.51	5808.61	-35.57	WMUG-06	negative dye test	9
3705.51	5808.61	-33.07	WMUG-06	negative dye test	9
3705.51	5808.61	-30.57	WMUG-06	negative dye test	9
3705.51	5808.61	-18.07	WMUG-06	negative dye test	9
3705.51	5808.61	-15.57	WMUG-06	negative dye test	9
3705.51	5808.61	-13.07	WMUG-06	negative dye test	9
3705.51	5808.61	-10.57	WMUG-06	negative dye test	9
3705.51	5808.61	-8.07	WMUG-06	negative dye test	9
3705.51	5808.61	-4.07	WMUG-06	negative dye test	9
3757.49	5706.63	-38.07	WMUG-10	negative dye test	9
3757.49	5706.63	-35.07	WMUG-10	negative dye test	9
3757.49	5706.63	-33.07	WMUG-10	negative dye test	9
3757.49	5706.63	-30.57	WMUG-10	negative dye test	9
3757.49	5706.63	-23.57	WMUG-10	negative dye test	9
3757.49	5706.63	-21.57	WMUG-10	negative dye test	9
3757.49	5706.63	-19.57	WMUG-10	negative dye test	9
3757.49	5706.63	-15.57	WMUG-10	negative dye test	9
3757.49	5706.63	-10.07	WMUG-10	negative dye test	9
3757.49	5706.63	-9.07	WMUG-10	negative dye test	9
3757.49	5706.63	-3.57	WMUG-10	negative dye test	9
3504.64	6059.77	-150.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-147.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-145.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-120.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-97.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-95.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-92.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-90.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-87.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-85.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-82.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-80.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-77.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-75.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-72.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-67.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-65.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-62.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-57.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-52.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-50.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-42.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-40.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-37.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-32.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-27.84	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-25.34	WMUA-39/53C	negative dye test	9
3504.64	6059.77	-15.34	WMUA-39/53C	negative dye test	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3652.9	6052.45	-19.12	WMUR-09	negative dye test	9
3652.9	6052.45	-14.62	WMUR-09	negative dye test	9
3704.83	6052.05	-108.17	WMUR-01	negative dye test	9
3704.83	6052.05	-98.17	WMUR-01	negative dye test	9
3704.83	6052.05	-95.17	WMUR-01	negative dye test	9
3704.83	6052.05	-93.17	WMUR-01	negative dye test	9
3704.83	6052.05	-90.67	WMUR-01	negative dye test	9
3704.83	6052.05	-88.17	WMUR-01	negative dye test	9
3704.83	6052.05	-86.17	WMUR-01	negative dye test	9
3704.83	6052.05	-76.17	WMUR-01	negative dye test	9
3704.83	6052.05	-74.67	WMUR-01	negative dye test	9
3704.83	6052.05	-72.17	WMUR-01	negative dye test	9
3704.83	6052.05	-69.17	WMUR-01	negative dye test	9
3704.83	6052.05	-67.17	WMUR-01	negative dye test	9
3704.83	6052.05	-65.17	WMUR-01	negative dye test	9
3704.83	6052.05	-62.17	WMUR-01	negative dye test	9
3704.83	6052.05	-59.67	WMUR-01	negative dye test	9
3704.83	6052.05	-58.17	WMUR-01	negative dye test	9
3704.83	6052.05	-54.17	WMUR-01	negative dye test	9
3704.83	6052.05	-53.17	WMUR-01	negative dye test	9
3704.83	6052.05	-51.17	WMUR-01	negative dye test	9
3704.83	6052.05	-44.17	WMUR-01	negative dye test	9
3704.83	6052.05	-41.67	WMUR-01	negative dye test	9
3704.83	6052.05	-40.17	WMUR-01	negative dye test	9
3704.83	6052.05	-34.17	WMUR-01	negative dye test	9
3704.83	6052.05	-32.67	WMUR-01	negative dye test	9
3704.83	6052.05	-19.67	WMUR-01	negative dye test	9
3704.83	6052.05	-17.67	WMUR-01	negative dye test	9
3704.83	6052.05	-16.17	WMUR-01	negative dye test	9
3704.83	6052.05	-15.67	WMUR-01	negative dye test	9
3704.83	6052.05	-7.17	WMUR-01	negative dye test	9
3704.83	6052.05	-6.17	WMUR-01	negative dye test	9
3645.63	5782.75	-63.22	WMUG-03	negative dye test	9
3645.63	5782.75	-60.72	WMUG-03	negative dye test	9
3645.63	5782.75	-45.72	WMUG-03	negative dye test	9
3645.63	5782.75	-43.22	WMUG-03	negative dye test	9
3645.63	5782.75	-40.72	WMUG-03	negative dye test	9
3645.63	5782.75	-38.22	WMUG-03	negative dye test	9
3645.63	5782.75	-37.22	WMUG-03	negative dye test	9
3645.63	5782.75	-18.12	WMUG-03	negative dye test	9
3645.63	5782.75	-13.22	WMUG-03	negative dye test	9
3645.63	5782.75	-11.22	WMUG-03	negative dye test	9
3645.63	5782.75	-9.22	WMUG-03	negative dye test	9
3645.63	5782.75	-8.12	WMUG-03	negative dye test	9
3645.63	5782.75	-4.92	WMUG-03	negative dye test	9
3709.31	5938.88	-58.26	WMUG-09	negative dye test	9
3709.31	5938.88	-55.76	WMUG-09	negative dye test	9
3709.31	5938.88	-52.76	WMUG-09	negative dye test	9
3709.31	5938.88	-50.76	WMUG-09	negative dye test	9
3709.31	5938.88	-48.76	WMUG-09	negative dye test	9
3709.31	5938.88	-48.26	WMUG-09	negative dye test	9
3709.31	5938.88	-45.76	WMUG-09	negative dye test	9
3709.31	5938.88	-37.76	WMUG-09	negative dye test	9
3709.31	5938.88	-35.76	WMUG-09	negative dye test	9
3709.31	5938.88	-33.26	WMUG-09	negative dye test	9
3709.31	5938.88	-28.26	WMUG-09	negative dye test	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3709.31	5938.88	-25.76	WMUG-09	negative dye test	9
3709.31	5938.88	-23.26	WMUG-09	negative dye test	9
3709.31	5938.88	-12.76	WMUG-09	negative dye test	9
3709.31	5938.88	-8.26	WMUG-09	negative dye test	9
3709.31	5938.88	-5.86	WMUG-09	negative dye test	9
3709.31	5938.88	-4.56	WMUG-09	negative dye test	9
3709.31	5938.88	-3.56	WMUG-09	negative dye test	9
3799.74	5967.86	-138.35	WMUG-08	negative dye test	9
3799.74	5967.86	-135.85	WMUG-08	negative dye test	9
3799.74	5967.86	-133.35	WMUG-08	negative dye test	9
3799.74	5967.86	-130.85	WMUG-08	negative dye test	9
3799.74	5967.86	-93.35	WMUG-08	negative dye test	9
3799.74	5967.86	-88.35	WMUG-08	negative dye test	9
3799.74	5967.86	-85.85	WMUG-08	negative dye test	9
3799.74	5967.86	-83.35	WMUG-08	negative dye test	9
3799.74	5967.86	-80.85	WMUG-08	negative dye test	9
3799.74	5967.86	-78.35	WMUG-08	negative dye test	9
3799.74	5967.86	-75.85	WMUG-08	negative dye test	9
3799.74	5967.86	-73.35	WMUG-08	negative dye test	9
3799.74	5967.86	-70.85	WMUG-08	negative dye test	9
3799.74	5967.86	-68.35	WMUG-08	negative dye test	9
3799.74	5967.86	-63.35	WMUG-08	negative dye test	9
3799.74	5967.86	-60.85	WMUG-08	negative dye test	9
3799.74	5967.86	-58.35	WMUG-08	negative dye test	9
3799.74	5967.86	-53.35	WMUG-08	negative dye test	9
3799.74	5967.86	-50.85	WMUG-08	negative dye test	9
3799.74	5967.86	-48.35	WMUG-08	negative dye test	9
3799.74	5967.86	-45.85	WMUG-08	negative dye test	9
3799.74	5967.86	-43.35	WMUG-08	negative dye test	9
3799.74	5967.86	-40.85	WMUG-08	negative dye test	9
3799.74	5967.86	-35.85	WMUG-08	negative dye test	9
3799.74	5967.86	-33.35	WMUG-08	negative dye test	9
3799.74	5967.86	-30.85	WMUG-08	negative dye test	9
3799.74	5967.86	-20.85	WMUG-08	negative dye test	9
3799.74	5967.86	-13.35	WMUG-08	negative dye test	9
3799.74	5967.86	-6.85	WMUG-08	negative dye test	9
3799.74	5967.86	-4.85	WMUG-08	negative dye test	9
3760.84	6052.88	-93.85	WMUR-02	negative dye test	9
3760.84	6052.88	-92.35	WMUR-02	negative dye test	9
3760.84	6052.88	-90.85	WMUR-02	negative dye test	9
3760.84	6052.88	-87.85	WMUR-02	negative dye test	9
3760.84	6052.88	-82.35	WMUR-02	negative dye test	9
3760.84	6052.88	-80.35	WMUR-02	negative dye test	9
3760.84	6052.88	-75.85	WMUR-02	negative dye test	9
3760.84	6052.88	-73.35	WMUR-02	negative dye test	9
3760.84	6052.88	-70.85	WMUR-02	negative dye test	9
3760.84	6052.88	-66.35	WMUR-02	negative dye test	9
3760.84	6052.88	-64.85	WMUR-02	negative dye test	9
3760.84	6052.88	-62.35	WMUR-02	negative dye test	9
3760.84	6052.88	-59.15	WMUR-02	negative dye test	9
3760.84	6052.88	-55.85	WMUR-02	negative dye test	9
3760.84	6052.88	-12.35	WMUR-02	negative dye test	9
3760.84	6052.88	-3.85	WMUR-02	negative dye test	9
3944.78	6070.07	-131.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-129.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-123.54	WMUR-05/83C	negative dye test	9

APPENDIX S

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TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3944.78	6070.07	-121.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-83.54	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-83.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-81.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-79.54	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-78.54	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-71.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-66.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-63.54	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-61.04	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-12.54	WMUR-05/83C	negative dye test	9
3944.78	6070.07	-9.74	WMUR-05/83C	negative dye test	9
3944.83	6064.23	-109.84	EXT-7	negative dye test	9
3736.82	6790.48	-17.34	H-01	negative dye test	9
3736.82	6790.48	-37.34	H-01	negative dye test	9
3736.82	6790.48	-97.34	H-01	negative dye test	9
3736.82	6790.48	-99.84	H-01	negative dye test	9
3736.82	6790.48	-102.34	H-01	negative dye test	9
3736.82	6790.48	-104.84	H-01	negative dye test	9
3736.82	6790.48	-107.34	H-01	negative dye test	9
3736.82	6790.48	-112.34	H-01	negative dye test	9
3736.82	6790.48	-114.84	H-01	negative dye test	9
3736.82	6790.48	-117.34	H-01	negative dye test	9
3736.82	6790.48	-119.84	H-01	negative dye test	9
3736.82	6790.48	-122.34	H-01	negative dye test	9
3736.82	6790.48	-124.84	H-01	negative dye test	9
3736.82	6790.48	-127.34	H-01	negative dye test	9
3736.82	6790.48	-129.84	H-01	negative dye test	9
3736.82	6790.48	-134.84	H-01	negative dye test	9
3736.82	6790.48	-142.34	H-01	negative dye test	9
3736.82	6790.48	-144.84	H-01	negative dye test	9
3736.82	6790.48	-147.34	H-01	negative dye test	9
3736.82	6790.48	-149.84	H-01	negative dye test	9
3736.82	6790.48	-154.84	H-01	negative dye test	9
3736.82	6790.48	-157.34	H-01	negative dye test	9
3909.7	6402.7	-139.71	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-136.71	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-135.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-133.71	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-131.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-127.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-125.71	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-124.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-116.71	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-116.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-115.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-108.71	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-103.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-92.21	WMUR-06/94C	negative dye test	9
3909.7	6402.7	-90.21	WMUR-06/94C	negative dye test	9
3769.26	7104.02	-70.05	F-SHALLOW-NEW	negative dye test	9
3769.26	7104.02	-75.05	F-SHALLOW-NEW	negative dye test	9
3769.26	7104.02	-85.05	F-SHALLOW-NEW	negative dye test	9
3769.26	7104.02	-88.05	F-SHALLOW-NEW	negative dye test	9
3764.67	7098.9	-22.58	F-DEEP	negative dye test	9
3764.67	7098.9	-27.58	F-DEEP	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3764.67	7098.9	-30.08	F-DEEP	negative dye test	9
3764.67	7098.9	-37.58	F-DEEP	negative dye test	9
3764.67	7098.9	-40.08	F-DEEP	negative dye test	9
3764.67	7098.9	-42.58	F-DEEP	negative dye test	9
3764.67	7098.9	-45.08	F-DEEP	negative dye test	9
3764.67	7098.9	-47.58	F-DEEP	negative dye test	9
3764.67	7098.9	-50.08	F-DEEP	negative dye test	9
3764.67	7098.9	-52.58	F-DEEP	negative dye test	9
3764.67	7098.9	-55.08	F-DEEP	negative dye test	9
3764.67	7098.9	-57.58	F-DEEP	negative dye test	9
3764.67	7098.9	-60.08	F-DEEP	negative dye test	9
3764.67	7098.9	-62.58	F-DEEP	negative dye test	9
3764.67	7098.9	-65.08	F-DEEP	negative dye test	9
3764.67	7098.9	-67.58	F-DEEP	negative dye test	9
3764.67	7098.9	-70.08	F-DEEP	negative dye test	9
3764.67	7098.9	-72.58	F-DEEP	negative dye test	9
3764.67	7098.9	-75.08	F-DEEP	negative dye test	9
3764.67	7098.9	-77.58	F-DEEP	negative dye test	9
3764.67	7098.9	-80.08	F-DEEP	negative dye test	9
3764.67	7098.9	-82.58	F-DEEP	negative dye test	9
3764.67	7098.9	-85.08	F-DEEP	negative dye test	9
3764.67	7098.9	-87.58	F-DEEP	negative dye test	9
3764.67	7098.9	-90.08	F-DEEP	negative dye test	9
3764.67	7098.9	-97.58	F-DEEP	negative dye test	9
3764.67	7098.9	-100.08	F-DEEP	negative dye test	9
3764.67	7098.9	-112.58	F-DEEP	negative dye test	9
3764.67	7098.9	-115.08	F-DEEP	negative dye test	9
3764.67	7098.9	-117.58	F-DEEP	negative dye test	9
3764.67	7098.9	-120.08	F-DEEP	negative dye test	9
3764.64	7104.33	-112.6	F-INTERMEDIATE	negative dye test	9
3764.64	7104.33	-115.1	F-INTERMEDIATE	negative dye test	9
3764.64	7104.33	-117.6	F-INTERMEDIATE	negative dye test	9
3764.64	7104.33	-122.6	F-INTERMEDIATE	negative dye test	9
3764.64	7104.33	-125.1	F-INTERMEDIATE	negative dye test	9
3764.64	7104.33	-127.6	F-INTERMEDIATE	negative dye test	9
3863.26	5719.47	-37.51	WMUG-14	negative dye test	9
3863.26	5719.47	-33.01	WMUG-14	negative dye test	9
3863.26	5719.47	-30.51	WMUG-14	negative dye test	9
3863.26	5719.47	-18.51	WMUG-14	negative dye test	9
3863.26	5719.47	-14.51	WMUG-14	negative dye test	9
3863.26	5719.47	-5.51	WMUG-14	negative dye test	9
3870.95	6046.9	-114.14	WMUR-07	negative dye test	9
3870.95	6046.9	-113.64	WMUR-07	negative dye test	9
3870.95	6046.9	-111.64	WMUR-07	negative dye test	9
3870.95	6046.9	-111.14	WMUR-07	negative dye test	9
3870.95	6046.9	-110.14	WMUR-07	negative dye test	9
3870.95	6046.9	-109.64	WMUR-07	negative dye test	9
3870.95	6046.9	-108.14	WMUR-07	negative dye test	9
3870.95	6046.9	-106.64	WMUR-07	negative dye test	9
3870.95	6046.9	-104.14	WMUR-07	negative dye test	9
3870.95	6046.9	-101.64	WMUR-07	negative dye test	9
3870.95	6046.9	-91.14	WMUR-07	negative dye test	9
3870.95	6046.9	-89.14	WMUR-07	negative dye test	9
3870.95	6046.9	-86.64	WMUR-07	negative dye test	9
3870.95	6046.9	-84.14	WMUR-07	negative dye test	9
3870.95	6046.9	-81.64	WMUR-07	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3870.95	6046.9	-79.14	WMUR-07	negative dye test	9
3870.95	6046.9	-76.64	WMUR-07	negative dye test	9
3870.95	6046.9	-74.14	WMUR-07	negative dye test	9
3870.95	6046.9	-71.64	WMUR-07	negative dye test	9
3870.95	6046.9	-69.14	WMUR-07	negative dye test	9
3870.95	6046.9	-66.64	WMUR-07	negative dye test	9
3870.95	6046.9	-64.14	WMUR-07	negative dye test	9
3870.95	6046.9	-61.64	WMUR-07	negative dye test	9
3870.95	6046.9	-59.14	WMUR-07	negative dye test	9
3870.95	6046.9	-56.64	WMUR-07	negative dye test	9
3870.95	6046.9	-54.14	WMUR-07	negative dye test	9
3870.95	6046.9	-5.14	WMUR-07	negative dye test	9
3898.58	5965.16	-83.67	WMUR-08	negative dye test	9
3898.58	5965.16	-69.67	WMUR-08	negative dye test	9
3898.58	5965.16	-60.17	WMUR-08	negative dye test	9
3898.58	5965.16	-57.67	WMUR-08	negative dye test	9
3898.58	5965.16	-52.17	WMUR-08	negative dye test	9
3898.58	5965.16	-46.17	WMUR-08	negative dye test	9
3898.58	5965.16	-42.17	WMUR-08	negative dye test	9
3898.58	5965.16	-37.67	WMUR-08	negative dye test	9
3898.58	5965.16	-16.67	WMUR-08	negative dye test	9
3898.58	5965.16	-14.17	WMUR-08	negative dye test	9
3690.74	5605.95	-7.38	WMUG-13	negative dye test	9
3799.93	6470.18	6.8	SB-B-DEEP	negative dye test	9
3799.93	6470.18	1.8	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-0.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-3.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-5.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-8.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-10.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-13.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-15.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-18.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-20.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-23.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-25.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-28.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-30.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-33.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-35.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-38.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-40.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-43.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-45.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-48.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-50.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-53.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-55.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-58.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-60.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-63.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-65.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-68.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-70.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-73.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-75.7	SB-B-DEEP	negative dye test	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3799.93	6470.18	-78.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-80.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-83.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-85.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-88.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-90.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-93.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-95.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-98.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-100.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-103.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-105.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-108.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-110.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-113.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-115.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-118.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-120.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-123.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-125.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-128.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-143.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-145.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-148.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-150.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-155.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-158.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-160.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-163.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-165.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-168.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-170.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-173.2	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-185.7	SB-B-DEEP	negative dye test	9
3799.93	6470.18	-188.2	SB-B-DEEP	negative dye test	9
3153.43	7018.66	-155.86	G-INTERMEDIATE	negative dye test	9
3153.43	7018.66	-158.36	G-INTERMEDIATE	negative dye test	9
3835.05	6293.03	-131.61	WMUR-10	negative dye test	9
3835.05	6293.03	-94.11	WMUR-10	negative dye test	9
3146.89	7018.33	4.13	G-DEEP	negative dye test	9
3146.89	7018.33	1.63	G-DEEP	negative dye test	9
3146.89	7018.33	-0.87	G-DEEP	negative dye test	9
3146.89	7018.33	-3.37	G-DEEP	negative dye test	9
3146.89	7018.33	-13.37	G-DEEP	negative dye test	9
3146.89	7018.33	-15.87	G-DEEP	negative dye test	9
3146.89	7018.33	-18.37	G-DEEP	negative dye test	9
3146.89	7018.33	-20.87	G-DEEP	negative dye test	9
3146.89	7018.33	-23.37	G-DEEP	negative dye test	9
3146.89	7018.33	-25.87	G-DEEP	negative dye test	9
3146.89	7018.33	-28.37	G-DEEP	negative dye test	9
3146.89	7018.33	-30.87	G-DEEP	negative dye test	9
3146.89	7018.33	-33.37	G-DEEP	negative dye test	9
3146.89	7018.33	-35.87	G-DEEP	negative dye test	9
3146.89	7018.33	-38.37	G-DEEP	negative dye test	9
3146.89	7018.33	-40.87	G-DEEP	negative dye test	9
3146.89	7018.33	-43.37	G-DEEP	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3146.89	7018.33	-45.87	G-DEEP	negative dye test	9
3146.89	7018.33	-48.37	G-DEEP	negative dye test	9
3146.89	7018.33	-50.87	G-DEEP	negative dye test	9
3146.89	7018.33	-53.37	G-DEEP	negative dye test	9
3146.89	7018.33	-55.87	G-DEEP	negative dye test	9
3146.89	7018.33	-58.37	G-DEEP	negative dye test	9
3146.89	7018.33	-60.87	G-DEEP	negative dye test	9
3146.89	7018.33	-63.37	G-DEEP	negative dye test	9
3146.89	7018.33	-65.87	G-DEEP	negative dye test	9
3146.89	7018.33	-68.37	G-DEEP	negative dye test	9
3146.89	7018.33	-70.87	G-DEEP	negative dye test	9
3146.89	7018.33	-73.37	G-DEEP	negative dye test	9
3146.89	7018.33	-75.87	G-DEEP	negative dye test	9
3146.89	7018.33	-78.37	G-DEEP	negative dye test	9
3146.89	7018.33	-80.87	G-DEEP	negative dye test	9
3146.89	7018.33	-83.37	G-DEEP	negative dye test	9
3146.89	7018.33	-85.87	G-DEEP	negative dye test	9
3146.89	7018.33	-88.37	G-DEEP	negative dye test	9
3146.89	7018.33	-90.87	G-DEEP	negative dye test	9
3146.89	7018.33	-93.37	G-DEEP	negative dye test	9
3146.89	7018.33	-95.87	G-DEEP	negative dye test	9
3146.89	7018.33	-98.37	G-DEEP	negative dye test	9
3146.89	7018.33	-100.87	G-DEEP	negative dye test	9
3146.89	7018.33	-103.37	G-DEEP	negative dye test	9
3146.89	7018.33	-105.87	G-DEEP	negative dye test	9
3146.89	7018.33	-108.37	G-DEEP	negative dye test	9
3146.89	7018.33	-110.87	G-DEEP	negative dye test	9
3146.89	7018.33	-113.37	G-DEEP	negative dye test	9
3146.89	7018.33	-115.87	G-DEEP	negative dye test	9
3146.89	7018.33	-118.37	G-DEEP	negative dye test	9
3146.89	7018.33	-120.87	G-DEEP	negative dye test	9
3146.89	7018.33	-123.37	G-DEEP	negative dye test	9
3146.89	7018.33	-125.87	G-DEEP	negative dye test	9
3146.89	7018.33	-128.37	G-DEEP	negative dye test	9
3146.89	7018.33	-130.87	G-DEEP	negative dye test	9
3146.89	7018.33	-133.37	G-DEEP	negative dye test	9
3146.89	7018.33	-135.87	G-DEEP	negative dye test	9
3146.89	7018.33	-138.37	G-DEEP	negative dye test	9
3146.89	7018.33	-140.87	G-DEEP	negative dye test	9
3146.89	7018.33	-145.87	G-DEEP	negative dye test	9
3146.89	7018.33	-150.87	G-DEEP	negative dye test	9
3146.89	7018.33	-153.37	G-DEEP	negative dye test	9
3146.89	7018.33	-155.87	G-DEEP	negative dye test	9
3146.89	7018.33	-158.37	G-DEEP	negative dye test	9
3146.89	7018.33	-160.87	G-DEEP	negative dye test	9
3146.89	7018.33	-163.37	G-DEEP	negative dye test	9
3146.89	7018.33	-165.87	G-DEEP	negative dye test	9
3146.89	7018.33	-168.37	G-DEEP	negative dye test	9
3146.89	7018.33	-170.87	G-DEEP	negative dye test	9
3146.89	7018.33	-173.37	G-DEEP	negative dye test	9
3146.89	7018.33	-175.87	G-DEEP	negative dye test	9
3146.89	7018.33	-178.37	G-DEEP	negative dye test	9
3146.89	7018.33	-180.87	G-DEEP	negative dye test	9
3146.89	7018.33	-183.37	G-DEEP	negative dye test	9
3146.89	7018.33	-188.37	G-DEEP	negative dye test	9
3146.89	7018.33	-190.87	G-DEEP	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3146.89	7018.33	-193.37	G-DEEP	negative dye test	9
3146.89	7018.33	-195.87	G-DEEP	negative dye test	9
3146.89	7018.33	-205.87	G-DEEP	negative dye test	9
3146.89	7018.33	-210.87	G-DEEP	negative dye test	9
3146.89	7018.33	-213.37	G-DEEP	negative dye test	9
3138.6	7018.62	-113.38	G-SHALLOW	negative dye test	9
3138.6	7018.62	-115.88	G-SHALLOW	negative dye test	9
3695.44	6095.28	-109.64	WMUR-04	negative dye test	9
3695.44	6095.28	-101.64	WMUR-04	negative dye test	9
3695.44	6095.28	-98.64	WMUR-04	negative dye test	9
3695.44	6095.28	-95.64	WMUR-04	negative dye test	9
3695.44	6095.28	-94.14	WMUR-04	negative dye test	9
3695.44	6095.28	-89.14	WMUR-04	negative dye test	9
3695.44	6095.28	-86.64	WMUR-04	negative dye test	9
3695.44	6095.28	-83.64	WMUR-04	negative dye test	9
3695.44	6095.28	-80.14	WMUR-04	negative dye test	9
3695.44	6095.28	-72.64	WMUR-04	negative dye test	9
3695.44	6095.28	-71.64	WMUR-04	negative dye test	9
3695.44	6095.28	-68.14	WMUR-04	negative dye test	9
3695.44	6095.28	-66.64	WMUR-04	negative dye test	9
3695.44	6095.28	-64.64	WMUR-04	negative dye test	9
3695.44	6095.28	-62.14	WMUR-04	negative dye test	9
3695.44	6095.28	-48.64	WMUR-04	negative dye test	9
3695.44	6095.28	-46.64	WMUR-04	negative dye test	9
3695.44	6095.28	-43.64	WMUR-04	negative dye test	9
3695.44	6095.28	-41.14	WMUR-04	negative dye test	9
3695.44	6095.28	-37.64	WMUR-04	negative dye test	9
3695.44	6095.28	-29.64	WMUR-04	negative dye test	9
3695.44	6095.28	-29.14	WMUR-04	negative dye test	9
3746.63	6097.42	-110.22	WMUR-03	negative dye test	9
3746.63	6097.42	-104.22	WMUR-03	negative dye test	9
3746.63	6097.42	-103.22	WMUR-03	negative dye test	9
3746.63	6097.42	-102.72	WMUR-03	negative dye test	9
3746.63	6097.42	-93.22	WMUR-03	negative dye test	9
3746.63	6097.42	-92.22	WMUR-03	negative dye test	9
3746.63	6097.42	-80.22	WMUR-03	negative dye test	9
3746.63	6097.42	-62.22	WMUR-03	negative dye test	9
3746.63	6097.42	-49.72	WMUR-03	negative dye test	9
3746.63	6097.42	-47.72	WMUR-03	negative dye test	9
3746.63	6097.42	-44.72	WMUR-03	negative dye test	9
3746.63	6097.42	-42.22	WMUR-03	negative dye test	9
3707.58	6177.9	6.63	A	negative dye test	9
3707.58	6177.9	-0.87	A	negative dye test	9
3707.58	6177.9	-3.37	A	negative dye test	9
3707.58	6177.9	-5.87	A	negative dye test	9
3707.58	6177.9	-13.37	A	negative dye test	9
3707.58	6177.9	-18.37	A	negative dye test	9
3707.58	6177.9	-20.87	A	negative dye test	9
3707.58	6177.9	-23.37	A	negative dye test	9
3707.58	6177.9	-25.87	A	negative dye test	9
3707.58	6177.9	-28.37	A	negative dye test	9
3707.58	6177.9	-30.87	A	negative dye test	9
3707.58	6177.9	-33.37	A	negative dye test	9
3707.58	6177.9	-35.87	A	negative dye test	9
3707.58	6177.9	-38.37	A	negative dye test	9
3707.58	6177.9	-40.87	A	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3707.58	6177.9	-43.37	A	negative dye test	9
3707.58	6177.9	-45.87	A	negative dye test	9
3707.58	6177.9	-48.37	A	negative dye test	9
3707.58	6177.9	-50.87	A	negative dye test	9
3707.58	6177.9	-53.37	A	negative dye test	9
3707.58	6177.9	-55.87	A	negative dye test	9
3707.58	6177.9	-58.37	A	negative dye test	9
3707.58	6177.9	-60.87	A	negative dye test	9
3707.58	6177.9	-63.37	A	negative dye test	9
3707.58	6177.9	-65.87	A	negative dye test	9
3707.58	6177.9	-68.37	A	negative dye test	9
3707.58	6177.9	-70.87	A	negative dye test	9
3707.58	6177.9	-73.37	A	negative dye test	9
3707.58	6177.9	-75.87	A	negative dye test	9
3707.58	6177.9	-78.37	A	negative dye test	9
3707.58	6177.9	-80.87	A	negative dye test	9
3707.58	6177.9	-83.37	A	negative dye test	9
3707.58	6177.9	-85.87	A	negative dye test	9
3707.58	6177.9	-88.37	A	negative dye test	9
3707.58	6177.9	-90.87	A	negative dye test	9
3707.58	6177.9	-93.37	A	negative dye test	9
3707.58	6177.9	-95.87	A	negative dye test	9
3707.58	6177.9	-98.37	A	negative dye test	9
3707.58	6177.9	-100.87	A	negative dye test	9
3707.58	6177.9	-103.37	A	negative dye test	9
3707.58	6177.9	-105.87	A	negative dye test	9
3707.58	6177.9	-108.37	A	negative dye test	9
3707.58	6177.9	-110.87	A	negative dye test	9
3707.58	6177.9	-113.37	A	negative dye test	9
3707.58	6177.9	-115.87	A	negative dye test	9
3707.58	6177.9	-118.37	A	negative dye test	9
3707.58	6177.9	-120.87	A	negative dye test	9
3707.58	6177.9	-123.37	A	negative dye test	9
3707.58	6177.9	-125.87	A	negative dye test	9
3707.58	6177.9	-128.37	A	negative dye test	9
3707.58	6177.9	-130.87	A	negative dye test	9
3707.58	6177.9	-133.37	A	negative dye test	9
3707.58	6177.9	-135.87	A	negative dye test	9
3707.58	6177.9	-138.37	A	negative dye test	9
3707.58	6177.9	-140.87	A	negative dye test	9
3707.58	6177.9	-143.37	A	negative dye test	9
3707.58	6177.9	-145.87	A	negative dye test	9
3707.58	6177.9	-148.37	A	negative dye test	9
3707.58	6177.9	-150.87	A	negative dye test	9
3707.58	6177.9	-153.37	A	negative dye test	9
3707.58	6177.9	-155.87	A	negative dye test	9
3707.58	6177.9	-158.37	A	negative dye test	9
3707.58	6177.9	-160.87	A	negative dye test	9
3707.58	6177.9	-163.37	A	negative dye test	9
3707.58	6177.9	-165.87	A	negative dye test	9
3707.58	6177.9	-173.37	A	negative dye test	9
3707.58	6177.9	-175.87	A	negative dye test	9
3707.58	6177.9	-178.37	A	negative dye test	9
3707.58	6177.9	-180.87	A	negative dye test	9
3707.58	6177.9	-183.37	A	negative dye test	9
3707.58	6177.9	-185.87	A	negative dye test	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3707.58	6177.9	-188.37	A	negative dye test	9
3707.58	6177.9	-190.87	A	negative dye test	9
3995.75	4390.52	-5.3	NAVY-1-04	Below Partitioning Threshold	9
4013.6	4351.13	-7.3	NAVY-2-04	Below Partitioning Threshold	9
4022.13	4335.45	-8.3	NAVY-3-04	Below Partitioning Threshold	9
3746.43	4577.96	1.6	709-MW3-15	Below Partitioning Threshold	9
3857.07	4405.91	1.67	709-MW1-15	Below Partitioning Threshold	9
3469.67	4473.94	0	709-MW13-15	Below Partitioning Threshold	9
3608.33	4577.16	-16.05	709-MW15A-25	Below Partitioning Threshold	9
3590.76	4484.76	0.48	709-MW14-15	Below Partitioning Threshold	9
3554.46	4628.64	2.7	51-15	Below Partitioning Threshold	9
3488.1	4627.02	4	30-15	Below Partitioning Threshold	9
3445.85	4629.54	-37.7	38-55	Below Partitioning Threshold	9
3614.23	4598.67	-10.4	6A-24.5	Below Partitioning Threshold	9
3489.26	4681.31	1	28-15	Below Partitioning Threshold	9
3438.12	4628.47	1.5	29-14	Below Partitioning Threshold	9
3673.98	7078.59	-38.4	GP-9	Below Partitioning Threshold	9
3673.98	7078.59	-13.4	GP-9	Below Partitioning Threshold	9
3458.44	7010.45	-38.4	GP-11	Below Partitioning Threshold	9
3458.44	7010.45	-13.4	GP-11	Below Partitioning Threshold	9
3458.44	7010.45	-88.4	GP-11	Below Partitioning Threshold	9
3673.98	7078.59	-88.4	GP-9	Below Partitioning Threshold	9
3534.28	6928.11	-13.4	GP-10	Below Partitioning Threshold	9
3534.28	6928.11	-34.4	GP-10	Below Partitioning Threshold	9
3534.28	6928.11	-88.4	GP-10	Below Partitioning Threshold	9
3794.54	6897.54	-13.4	GP-2	Below Partitioning Threshold	9
3614.19	6873.76	-13.4	GP-3	Below Partitioning Threshold	9
3614.19	6873.76	-38.4	GP-3	Below Partitioning Threshold	9
3614.19	6873.76	-88.4	GP-3	Below Partitioning Threshold	9
3794.54	6897.54	-38.4	GP-2	Below Partitioning Threshold	9
3794.54	6897.54	-88.4	GP-2	Below Partitioning Threshold	9
3864.04	7109.64	-13.4	GP-7	Below Partitioning Threshold	9
3864.04	7109.64	-38.4	GP-7	Below Partitioning Threshold	9
3864.04	7109.64	-88.4	GP-7	Below Partitioning Threshold	9
3752.64	6999.8	-13.4	GP-8	Below Partitioning Threshold	9
3752.64	6999.8	-38.4	GP-8	Below Partitioning Threshold	9
3752.64	6999.8	-88.4	GP-8	Below Partitioning Threshold	9
3949.24	6981.78	-13.4	GP-1	Below Partitioning Threshold	9
3949.24	6981.78	-38.4	GP-1	Below Partitioning Threshold	9
3949.24	6981.78	-88.4	GP-1	Below Partitioning Threshold	9
3103.85	6837.43	-13.4	GP-13	Below Partitioning Threshold	9
3103.85	6837.43	-36.4	GP-13	Below Partitioning Threshold	9
3349.97	6829.38	-13.4	GP-12	Below Partitioning Threshold	9
3349.97	6829.38	-38.4	GP-12	Below Partitioning Threshold	9
3103.85	6837.43	-84.4	GP-13	Below Partitioning Threshold	9
3201.44	6704.56	-13.4	GP-6	Below Partitioning Threshold	9
3349.97	6829.38	-88.4	GP-12	Below Partitioning Threshold	9
3347.43	6712.49	-13.4	GP-5	Below Partitioning Threshold	9
3347.43	6712.49	-38.4	GP-5	Below Partitioning Threshold	9
3201.44	6704.56	-38.4	GP-6	Below Partitioning Threshold	9
3469.85	6783.68	-11.4	GP-4	Below Partitioning Threshold	9
3469.85	6783.68	-44.4	GP-4	Below Partitioning Threshold	9
3469.85	6783.68	-88.4	GP-4	Below Partitioning Threshold	9
3347.43	6712.49	-88.4	GP-5	Below Partitioning Threshold	9
3201.44	6704.56	-88.4	GP-6	Below Partitioning Threshold	9
4066.75	4304.32	-10.9	721-PZ-1	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4038.87	4363.34	-10.9	721-PZ-2	Below Partitioning Threshold	9
4014.87	4423.34	-10.9	721-PZ-3	Below Partitioning Threshold	9
4015.47	5983.5	-62.01	PT-12	Below Partitioning Threshold	9
4015.47	5983.5	-81.51	PT-12	Below Partitioning Threshold	9
4123.62	5669.3	-69.5	PT-16	Below Partitioning Threshold	9
4123.62	5669.3	-89.5	PT-16	Below Partitioning Threshold	9
4051.5	6260.89	-59.21	PT-10	Below Partitioning Threshold	9
4046.79	6117.02	-37.21	PT-11	Below Partitioning Threshold	9
4046.79	6117.02	-57.21	PT-11	Below Partitioning Threshold	9
4005.68	5822.2	-40.96	PT-14	Below Partitioning Threshold	9
3631.23	4279.31	-3.4	721-GP2	Below Partitioning Threshold	9
3631.23	4279.31	-13.4	721-GP2	Below Partitioning Threshold	9
3631.23	4279.31	-38.4	721-GP2	Below Partitioning Threshold	9
4004.24	5574.08	-47.96	PT-18	Below Partitioning Threshold	9
4004.24	5574.08	-45.96	PT-18	Below Partitioning Threshold	9
3618.59	4347.92	-3.4	721-GP1	Below Partitioning Threshold	9
3618.59	4347.92	-13.4	721-GP1	Below Partitioning Threshold	9
3618.59	4347.92	-38.4	721-GP1	Below Partitioning Threshold	9
3629.75	4208.81	-3.4	721-GP3	Below Partitioning Threshold	9
3629.75	4208.81	-13.4	721-GP3	Below Partitioning Threshold	9
3629.75	4208.81	-38.4	721-GP3	Below Partitioning Threshold	9
3851.37	4367.84	-3.4	721-GP5	Below Partitioning Threshold	9
3851.37	4367.84	-38.4	721-GP5	Below Partitioning Threshold	9
3851.37	4367.84	-13.4	721-GP5	Below Partitioning Threshold	9
4022.34	4304.24	-3.4	721-GP8	Below Partitioning Threshold	9
4022.34	4304.24	-13.4	721-GP8	Below Partitioning Threshold	9
4022.34	4304.24	-38.4	721-GP8	Below Partitioning Threshold	9
4045.81	4245.73	-3.4	721-GP9	Below Partitioning Threshold	9
4045.81	4245.73	-13.4	721-GP9	Below Partitioning Threshold	9
4045.81	4245.73	-38.4	721-GP9	Below Partitioning Threshold	9
4058.9	5558.28	-68.96	PT-17	Below Partitioning Threshold	9
3882.87	4220.27	-3.4	721-GP7	Below Partitioning Threshold	9
3879.95	4301.51	-3.4	721-GP6	Below Partitioning Threshold	9
3879.95	4301.51	-38.4	721-GP6	Below Partitioning Threshold	9
3879.95	4301.51	-13.4	721-GP6	Below Partitioning Threshold	9
3882.87	4220.27	-13.4	721-GP7	Below Partitioning Threshold	9
3882.87	4220.27	-38.4	721-GP7	Below Partitioning Threshold	9
3703.26	4272.74	-3.4	721-GP4	Below Partitioning Threshold	9
4053.48	5715.7	-68.37999817	PT-15	Below Partitioning Threshold	9
3703.26	4272.74	-38.4	721-GP4	Below Partitioning Threshold	9
3703.26	4272.74	-13.4	721-GP4	Below Partitioning Threshold	9
4069.69	4978.96	-32.39614158	PZ-4	Below Partitioning Threshold	9
4107.62	6259.55	-49.1335332	PZ-9	Below Partitioning Threshold	9
4256.32	5734.57	-49.97165518	PZ-8	Below Partitioning Threshold	9
4098.52	6118.44	-45.07027087	PZ-1	Below Partitioning Threshold	9
3102.42	6705.19	-13.4	GP-14	Below Partitioning Threshold	9
3102.42	6705.19	-38.4	GP-14	Below Partitioning Threshold	9
3102.42	6705.19	-88.4	GP-14	Below Partitioning Threshold	9
3248.88	6838.67	-13.4	GP-15	Below Partitioning Threshold	9
3248.88	6838.67	-38.4	GP-15	Below Partitioning Threshold	9
3248.88	6838.67	-88.4	GP-15	Below Partitioning Threshold	9
3303.94	6838.9	-13.4	GP-16	Below Partitioning Threshold	9
3303.94	6838.9	-38.4	GP-16	Below Partitioning Threshold	9
3303.94	6838.9	-88.4	GP-16	Below Partitioning Threshold	9
3982.86	4966.31	-0.75	66-15	Below Partitioning Threshold	9
3983.33	4971.35	-10.66	66-25	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3983.76	4975.88	-35.69	66-50	Below Partitioning Threshold	9
3984.32	5114.06	-1.03	65-15	Below Partitioning Threshold	9
3947.81	4313.19	-1.48	721-MW8-15	Below Partitioning Threshold	9
3606.49	5596.62	-10.5	22-25R	Below Partitioning Threshold	9
4098.78	6909.61	-47.92	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-59.42	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-69.42	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-79.42	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-89.42	Pier25-1	Below Partitioning Threshold	9
4113.2	5036.54	-57.02	Dock2-2	Below Partitioning Threshold	9
4113.2	5036.54	-62.02	Dock2-2	Below Partitioning Threshold	9
4113.2	5036.54	-67.02	Dock2-2	Below Partitioning Threshold	9
4113.2	5036.54	-72.02	Dock2-2	Below Partitioning Threshold	9
4113.2	5036.54	-77.02	Dock2-2	Below Partitioning Threshold	9
4113.2	5036.54	-82.02	Dock2-2	Below Partitioning Threshold	9
4100.56	6669.14	-49.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-59.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-79.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-69.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-109.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-99.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-89.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-129.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-139.02	Pier25-2	Below Partitioning Threshold	9
4115.1	5205	-63.72	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-68.72	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-55.22	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-58.72	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-73.72	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-78.72	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-83.72	Dock2-1	Below Partitioning Threshold	9
4115.1	5205	-88.72	Dock2-1	Below Partitioning Threshold	9
4115.93	4949.69	-58.42	Dock2-3	Below Partitioning Threshold	9
4115.93	4949.69	-53.42	Dock2-3	Below Partitioning Threshold	9
4115.93	4949.69	-73.42	Dock2-3	Below Partitioning Threshold	9
4115.93	4949.69	-78.42	Dock2-3	Below Partitioning Threshold	9
4115.93	4949.69	-63.42	Dock2-3	Below Partitioning Threshold	9
4115.93	4949.69	-68.42	Dock2-3	Below Partitioning Threshold	9
4098.78	6909.61	-99.42	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-109.42	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-119.42	Pier25-1	Below Partitioning Threshold	9
4098.78	6909.61	-129.42	Pier25-1	Below Partitioning Threshold	9
4115.02	4849.99	-69.02	Dock2-4	Below Partitioning Threshold	9
4115.02	4849.99	-64.02	Dock2-4	Below Partitioning Threshold	9
4115.02	4849.99	-54.02	Dock2-4	Below Partitioning Threshold	9
4115.02	4849.99	-59.02	Dock2-4	Below Partitioning Threshold	9
4115.02	4849.99	-74.02	Dock2-4	Below Partitioning Threshold	9
4115.02	4849.99	-84.02	Dock2-4	Below Partitioning Threshold	9
4115.02	4849.99	-79.02	Dock2-4	Below Partitioning Threshold	9
4115.6	4754.51	-49.82	Dock2-5	Below Partitioning Threshold	9
4115.6	4754.51	-54.82	Dock2-5	Below Partitioning Threshold	9
4115.6	4754.51	-44.82	Dock2-5	Below Partitioning Threshold	9
4115.6	4754.51	-69.82	Dock2-5	Below Partitioning Threshold	9
4115.6	4754.51	-74.82	Dock2-5	Below Partitioning Threshold	9
4115.6	4754.51	-79.82	Dock2-5	Below Partitioning Threshold	9
4115.6	4754.51	-59.82	Dock2-5	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4115.6	4754.51	-64.82	Dock2-5	Below Partitioning Threshold	9
4066.16	5415.12	-52.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-47.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-57.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-72.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-62.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-67.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-87.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-77.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-82.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-112.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-102.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-107.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-117.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-122.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-137.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-127.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-132.02	5106-8	Below Partitioning Threshold	9
4066.16	5415.12	-142.02	5106-8	Below Partitioning Threshold	9
4141.26	5423.81	-85.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-60.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-65.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-55.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-70.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-75.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-80.55	5106-7	Below Partitioning Threshold	9
4036.96	6531.98	-40.61	HYD-3	Below Partitioning Threshold	9
4036.96	6531.98	-30.61	HYD-3	Below Partitioning Threshold	9
4141.26	5423.81	-90.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-95.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-120.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-100.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-105.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-110.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-115.55	5106-7	Below Partitioning Threshold	9
4036.96	6531.98	-60.61	HYD-3	Below Partitioning Threshold	9
4036.96	6531.98	-50.61	HYD-3	Below Partitioning Threshold	9
4100.06	6988.8	-89.91999847	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-119.9199985	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-109.9199985	Pier25-4	Below Partitioning Threshold	9
4036.96	6531.98	-80.61	HYD-3	Below Partitioning Threshold	9
4036.96	6531.98	-70.61	HYD-3	Below Partitioning Threshold	9
4141.26	5423.81	-125.55	5106-7	Below Partitioning Threshold	9
4141.26	5423.81	-130.55	5106-7	Below Partitioning Threshold	9
4100.06	6988.8	-79.91999847	Pier25-4	Below Partitioning Threshold	9
4100.06	6988.8	-129.9199985	Pier25-4	Below Partitioning Threshold	9
4173.82	6914.06	-99.92	Pier25-5	Below Partitioning Threshold	9
4173.82	6914.06	-89.92	Pier25-5	Below Partitioning Threshold	9
4173.82	6914.06	-81.42	Pier25-5	Below Partitioning Threshold	9
4099.69	6790.79	-119.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-99.92000076	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-129.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-109.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-89.92000076	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-79.92000076	Pier25-3	Below Partitioning Threshold	9
4173.82	6914.06	-109.92	Pier25-5	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4173.82	6914.06	-115.92	Pier25-5	Below Partitioning Threshold	9
4099.69	6790.79	-179.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-139.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-169.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-159.9199969	Pier25-3	Below Partitioning Threshold	9
4099.69	6790.79	-149.9199969	Pier25-3	Below Partitioning Threshold	9
4177.68	6671.43	-149.0200015	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-129.0200015	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-139.0200015	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-119.0200015	Pier25-6	Below Partitioning Threshold	9
4036.96	6531.98	-150.61	HYD-3	Below Partitioning Threshold	9
4177.68	6671.43	-89.02000153	Pier25-6	Below Partitioning Threshold	9
4100.56	6669.14	-159.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-149.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-169.02	Pier25-2	Below Partitioning Threshold	9
4100.56	6669.14	-189.02	Pier25-2	Below Partitioning Threshold	9
4177.68	6671.43	-159.0200015	Pier25-6	Below Partitioning Threshold	9
4114.13	5276.44	-54.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-99.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-89.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-94.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-84.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-119.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-79.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-64.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-74.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-69.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-59.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-104.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-114.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-109.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-124.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-139.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-129.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-134.12	Dock2-8	Below Partitioning Threshold	9
4114.13	5276.44	-144.12	Dock2-8	Below Partitioning Threshold	9
4175.4	6793.1	-139.0200031	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-159.0200031	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-149.0200031	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-99.01999924	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-109.0199992	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-89.01999924	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-129.0200031	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-69.01999924	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-79.01999924	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-119.0200031	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-179.0200031	Pier25-7	Below Partitioning Threshold	9
4175.4	6793.1	-169.0200031	Pier25-7	Below Partitioning Threshold	9
4251.95	6672.35	-47.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-57.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-167.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-157.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-97.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-107.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-117.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-127.92	Pier25-8	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4251.95	6672.35	-147.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-82.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-137.92	Pier25-8	Below Partitioning Threshold	9
4251.95	6672.35	-67.92	Pier25-8	Below Partitioning Threshold	9
4099.37	6507.91	-73.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-83.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-53.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-63.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-143.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-93.62	HYD-2	Below Partitioning Threshold	9
4099.37	6507.91	-103.62	HYD-2	Below Partitioning Threshold	9
4044.58	5116.54	-35.32	HYD-7	Below Partitioning Threshold	9
4099.37	6507.91	-153.62	HYD-2	Below Partitioning Threshold	9
4151.01	6509.2	-78.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-48.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-58.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-68.12	HYD-1	Below Partitioning Threshold	9
4044.58	5116.54	-55.32	HYD-7	Below Partitioning Threshold	9
4044.58	5116.54	-45.32	HYD-7	Below Partitioning Threshold	9
4151.01	6509.2	-168.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-158.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-148.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-138.12	HYD-1	Below Partitioning Threshold	9
4151.01	6509.2	-98.12	HYD-1	Below Partitioning Threshold	9
4191.63	4952	-54.61999981	Dock2-6	Below Partitioning Threshold	9
4191.63	4952	-44.62000005	Dock2-6	Below Partitioning Threshold	9
4191.63	4952	-64.62000076	Dock2-6	Below Partitioning Threshold	9
4191.63	4952	-59.62000076	Dock2-6	Below Partitioning Threshold	9
4191.63	4952	-69.62000076	Dock2-6	Below Partitioning Threshold	9
4191.63	4952	-49.61999981	Dock2-6	Below Partitioning Threshold	9
4264.44	4950.12	-47.52	Dock2-7	Below Partitioning Threshold	9
4264.44	4950.12	-72.52	Dock2-7	Below Partitioning Threshold	9
4264.44	4950.12	-62.52	Dock2-7	Below Partitioning Threshold	9
4264.44	4950.12	-52.52	Dock2-7	Below Partitioning Threshold	9
4264.44	4950.12	-77.52	Dock2-7	Below Partitioning Threshold	9
4191.63	4952	-74.62000076	Dock2-6	Below Partitioning Threshold	9
4264.44	4950.12	-67.52	Dock2-7	Below Partitioning Threshold	9
4191.63	4952	-79.62000076	Dock2-6	Below Partitioning Threshold	9
4191.63	4952	-84.62000076	Dock2-6	Below Partitioning Threshold	9
4264.44	4950.12	-57.52	Dock2-7	Below Partitioning Threshold	9
4193.57	5203.03	-48.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-93.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-98.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-78.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-63.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-83.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-68.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-103.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-53.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-58.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-73.02	Dock2-9	Below Partitioning Threshold	9
4193.57	5203.03	-88.02	Dock2-9	Below Partitioning Threshold	9
4181.81	5613.39	-93.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-103.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-98.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-83.92	5106-5	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4181.81	5613.39	-88.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-78.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-73.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-68.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-58.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-53.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-113.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-108.42	5106-5	Below Partitioning Threshold	9
4193.35	4751.84	-50.82000038	Dock2-10	Below Partitioning Threshold	9
4193.35	4751.84	-45.81999999	Dock2-10	Below Partitioning Threshold	9
4181.81	5613.39	-128.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-118.92	5106-5	Below Partitioning Threshold	9
4181.81	5613.39	-123.92	5106-5	Below Partitioning Threshold	9
4163.48	4610.17	-67.92	HYD-8	Below Partitioning Threshold	9
4163.48	4610.17	-77.92	HYD-8	Below Partitioning Threshold	9
4163.48	4610.17	-57.92	HYD-8	Below Partitioning Threshold	9
4193.35	4751.84	-70.82000038	Dock2-10	Below Partitioning Threshold	9
4193.35	4751.84	-80.81999847	Dock2-10	Below Partitioning Threshold	9
4193.35	4751.84	-75.81999847	Dock2-10	Below Partitioning Threshold	9
4193.35	4751.84	-60.97	Dock2-10	Below Partitioning Threshold	9
4193.35	4751.84	-55.82000038	Dock2-10	Below Partitioning Threshold	9
4193.35	4751.84	-65.82000038	Dock2-10	Below Partitioning Threshold	9
4163.48	4610.17	-47.92	HYD-8	Below Partitioning Threshold	9
4163.48	4610.17	-107.92	HYD-8	Below Partitioning Threshold	9
4044.58	5116.54	-75.32	HYD-7	Below Partitioning Threshold	9
4108.31	4609.65	-45.17	HYD-9	Below Partitioning Threshold	9
4163.48	4610.17	-87.92	HYD-8	Below Partitioning Threshold	9
4044.58	5116.54	-65.32	HYD-7	Below Partitioning Threshold	9
4163.48	4610.17	-127.92	HYD-8	Below Partitioning Threshold	9
4163.48	4610.17	-97.92	HYD-8	Below Partitioning Threshold	9
4163.48	4610.17	-117.92	HYD-8	Below Partitioning Threshold	9
4108.31	4609.65	-55.17	HYD-9	Below Partitioning Threshold	9
4108.31	4609.65	-65.17	HYD-9	Below Partitioning Threshold	9
4108.31	4609.65	-125.17	HYD-9	Below Partitioning Threshold	9
4044.58	5116.54	-85.32	HYD-7	Below Partitioning Threshold	9
4108.31	4609.65	-115.17	HYD-9	Below Partitioning Threshold	9
4108.31	4609.65	-85.17	HYD-9	Below Partitioning Threshold	9
4108.31	4609.65	-75.17	HYD-9	Below Partitioning Threshold	9
4108.31	4609.65	-135.17	HYD-9	Below Partitioning Threshold	9
4044.58	5116.54	-95.32	HYD-7	Below Partitioning Threshold	9
4044.58	5116.54	-105.32	HYD-7	Below Partitioning Threshold	9
4108.31	4609.65	-105.17	HYD-9	Below Partitioning Threshold	9
4108.31	4609.65	-95.17	HYD-9	Below Partitioning Threshold	9
4038.98	4607.94	-79.71999924	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-99.72000305	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-29.72000019	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-69.71999924	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-89.72000305	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-39.71999924	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-49.71999924	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-59.71999924	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-109.7200031	HYD-10	Below Partitioning Threshold	9
4038.98	4607.94	-119.7200031	HYD-10	Below Partitioning Threshold	9
4044.58	5116.54	-115.32	HYD-7	Below Partitioning Threshold	9
4044.58	5116.54	-125.32	HYD-7	Below Partitioning Threshold	9
4044.58	5116.54	-135.32	HYD-7	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4038.98	4607.94	-129.7200031	HYD-10	Below Partitioning Threshold	9
4153.61	5838.03	-74.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-68.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-84.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-78.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-138.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-133.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-123.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-143.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-128.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-158.82	5106-3	Below Partitioning Threshold	9
3971.43	5918.73	-9.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-21.32	EA-1	Below Partitioning Threshold	9
4153.61	5838.03	-163.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-148.82	5106-3	Below Partitioning Threshold	9
4153.61	5838.03	-153.82	5106-3	Below Partitioning Threshold	9
3971.43	5918.73	-46.32	EA-1	Below Partitioning Threshold	9
4097.72	5836.81	-108.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-98.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-88.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-128.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-118.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-158.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-168.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-148.62	HYD-4	Below Partitioning Threshold	9
4097.72	5836.81	-138.62	HYD-4	Below Partitioning Threshold	9
3971.43	5918.73	-51.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-56.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-76.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-61.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-66.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-71.32	EA-1	Below Partitioning Threshold	9
4179.64	6048.35	-135.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-125.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-130.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-120.12	5106-1	Below Partitioning Threshold	9
3971.43	5918.73	-86.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-91.32	EA-1	Below Partitioning Threshold	9
4179.64	6048.35	-140.12	5106-1	Below Partitioning Threshold	9
4179.64	6048.35	-145.12	5106-1	Below Partitioning Threshold	9
4111.57	5118.07	-81.85999847	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-71.80999924	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-61.81000019	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-51.81000019	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-91.85999847	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-101.8099992	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-121.8100031	HYD-6	Below Partitioning Threshold	9
3971.43	5918.73	-106.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-101.32	EA-1	Below Partitioning Threshold	9
4111.57	5118.07	-111.8100031	HYD-6	Below Partitioning Threshold	9
4111.57	5118.07	-151.8100031	HYD-6	Below Partitioning Threshold	9
3971.43	5918.73	-116.32	EA-1	Below Partitioning Threshold	9
4111.57	5118.07	-141.8100031	HYD-6	Below Partitioning Threshold	9
3971.43	5918.73	-111.32	EA-1	Below Partitioning Threshold	9
4161.76	5116.55	-62.29	HYD-5	Below Partitioning Threshold	9
4111.57	5118.07	-161.8100031	HYD-6	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4111.57	5118.07	-131.8100031	HYD-6	Below Partitioning Threshold	9
3971.43	5918.73	-121.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-126.32	EA-1	Below Partitioning Threshold	9
4161.76	5116.55	-92.29	HYD-5	Below Partitioning Threshold	9
4161.76	5116.55	-102.29	HYD-5	Below Partitioning Threshold	9
4161.76	5116.55	-72.29	HYD-5	Below Partitioning Threshold	9
4161.76	5116.55	-82.29	HYD-5	Below Partitioning Threshold	9
4161.76	5116.55	-112.29	HYD-5	Below Partitioning Threshold	9
4161.76	5116.55	-125.79	HYD-5	Below Partitioning Threshold	9
3971.43	5918.73	-131.32	EA-1	Below Partitioning Threshold	9
3971.43	5918.73	-136.32	EA-1	Below Partitioning Threshold	9
4328.35	6673.94	-87.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-67.7	Pier25-11	Below Partitioning Threshold	9
3971.43	5918.73	-141.32	EA-1	Below Partitioning Threshold	9
4328.35	6673.94	-147.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-117.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-97.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-127.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-107.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-137.7	Pier25-11	Below Partitioning Threshold	9
4328.35	6673.94	-157.7	Pier25-11	Below Partitioning Threshold	9
3974.44	5780.85	-9.82	EA-2	Below Partitioning Threshold	9
4236.94	5392.56	-46.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-51.02	5106-12	Below Partitioning Threshold	9
3974.44	5780.85	-24.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-29.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-34.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-19.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-39.82	EA-2	Below Partitioning Threshold	9
4236.94	5392.56	-56.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-61.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-66.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-71.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-76.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-81.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-86.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-91.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-96.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-136.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-156.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-141.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-131.02	5106-12	Below Partitioning Threshold	9
3974.44	5780.85	-49.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-44.82	EA-2	Below Partitioning Threshold	9
4236.94	5392.56	-116.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-121.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-126.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-146.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-151.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-101.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-106.02	5106-12	Below Partitioning Threshold	9
4236.94	5392.56	-111.02	5106-12	Below Partitioning Threshold	9
3974.44	5780.85	-54.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-59.82	EA-2	Below Partitioning Threshold	9
4258.21	5614.99	-72.82	5106-11	Below Partitioning Threshold	9
3974.44	5780.85	-69.82	EA-2	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4258.21	5614.99	-47.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-77.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-82.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-62.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-87.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-52.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-57.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-67.82	5106-11	Below Partitioning Threshold	9
3974.44	5780.85	-74.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-64.82	EA-2	Below Partitioning Threshold	9
4258.21	5614.99	-122.82	5106-11	Below Partitioning Threshold	9
3974.44	5780.85	-79.82	EA-2	Below Partitioning Threshold	9
4258.21	5614.99	-117.82	5106-11	Below Partitioning Threshold	9
3974.44	5780.85	-84.82	EA-2	Below Partitioning Threshold	9
4258.21	5614.99	-127.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-137.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-92.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-102.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-107.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-112.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-132.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-142.82	5106-11	Below Partitioning Threshold	9
4258.21	5614.99	-147.82	5106-11	Below Partitioning Threshold	9
3974.44	5780.85	-99.82	EA-2	Below Partitioning Threshold	9
4181.53	5508.73	-68.42	5106-6	Below Partitioning Threshold	9
3974.44	5780.85	-94.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-89.82	EA-2	Below Partitioning Threshold	9
4181.53	5508.73	-63.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-58.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-73.42	5106-6	Below Partitioning Threshold	9
3974.44	5780.85	-104.82	EA-2	Below Partitioning Threshold	9
4181.53	5508.73	-78.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-88.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-93.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-98.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-103.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-108.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-113.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-118.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-123.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-83.42	5106-6	Below Partitioning Threshold	9
3974.44	5780.85	-109.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-119.82	EA-2	Below Partitioning Threshold	9
4181.53	5508.73	-128.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-133.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-138.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-143.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-148.42	5106-6	Below Partitioning Threshold	9
4181.53	5508.73	-153.42	5106-6	Below Partitioning Threshold	9
4189.17	5280.89	-45.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-50.32	Dock2-11	Below Partitioning Threshold	9
3974.44	5780.85	-114.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-124.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-129.82	EA-2	Below Partitioning Threshold	9
4189.17	5280.89	-80.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-55.32	Dock2-11	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4189.17	5280.89	-60.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-65.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-70.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-75.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-85.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-90.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-95.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-100.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-105.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-110.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-115.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-120.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-125.32	Dock2-11	Below Partitioning Threshold	9
3974.44	5780.85	-134.82	EA-2	Below Partitioning Threshold	9
3974.44	5780.85	-139.82	EA-2	Below Partitioning Threshold	9
4189.17	5280.89	-130.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-135.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-140.32	Dock2-11	Below Partitioning Threshold	9
4189.17	5280.89	-145.32	Dock2-11	Below Partitioning Threshold	9
3993.38	5608.85	-1.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-14.82	EA-3	Below Partitioning Threshold	9
4249.62	6791.2	-78.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-118.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-108.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-98.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-128.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-88.92	Pier25-9	Below Partitioning Threshold	9
3993.38	5608.85	-9.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-24.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-19.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-29.82	EA-3	Below Partitioning Threshold	9
4249.62	6791.2	-138.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-168.92	Pier25-9	Below Partitioning Threshold	9
3993.38	5608.85	-34.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-39.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-44.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-49.82	EA-3	Below Partitioning Threshold	9
4252.04	6590.31	-68.99	Pier25-10	Below Partitioning Threshold	9
4249.62	6791.2	-148.92	Pier25-9	Below Partitioning Threshold	9
4249.62	6791.2	-158.92	Pier25-9	Below Partitioning Threshold	9
4252.04	6590.31	-118.99	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-128.99	Pier25-10	Below Partitioning Threshold	9
3993.38	5608.85	-54.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-59.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-64.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-69.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-74.82	EA-3	Below Partitioning Threshold	9
4252.04	6590.31	-78.99	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-138.99	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-158.99	Pier25-10	Below Partitioning Threshold	9
4252.04	6590.31	-148.99	Pier25-10	Below Partitioning Threshold	9
3993.38	5608.85	-79.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-84.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-89.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-94.82	EA-3	Below Partitioning Threshold	9
4256.67	6044.99	-75.92	5106-9	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4256.67	6044.99	-105.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-110.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-45.92	5106-9	Below Partitioning Threshold	9
3993.38	5608.85	-99.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-104.82	EA-3	Below Partitioning Threshold	9
4254.07	5840.65	-46.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-51.72	5106-10	Below Partitioning Threshold	9
4256.67	6044.99	-125.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-130.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-150.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-135.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-120.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-140.92	5106-9	Below Partitioning Threshold	9
4256.67	6044.99	-145.92	5106-9	Below Partitioning Threshold	9
3993.38	5608.85	-109.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-114.82	EA-3	Below Partitioning Threshold	9
4254.07	5840.65	-56.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-86.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-91.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-106.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-81.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-76.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-66.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-61.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-101.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-96.72	5106-10	Below Partitioning Threshold	9
3993.38	5608.85	-124.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-119.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-129.82	EA-3	Below Partitioning Threshold	9
4254.07	5840.65	-126.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-116.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-131.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-136.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-121.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-111.72	5106-10	Below Partitioning Threshold	9
3993.38	5608.85	-134.82	EA-3	Below Partitioning Threshold	9
3993.38	5608.85	-139.82	EA-3	Below Partitioning Threshold	9
4254.07	5840.65	-166.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-161.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-141.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-146.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-151.72	5106-10	Below Partitioning Threshold	9
4254.07	5840.65	-156.72	5106-10	Below Partitioning Threshold	9
3993.38	5608.85	-144.82	EA-3	Below Partitioning Threshold	9
4257.2	5202	-96.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-76.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-81.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-66.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-56.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-46.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-51.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-61.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-71.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-86.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-91.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-101.42	Dock2-12	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4257.2	5202	-106.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-111.42	Dock2-12	Below Partitioning Threshold	9
4257.2	5202	-116.42	Dock2-12	Below Partitioning Threshold	9
4045.35	5877.97	-159.8299939	PT-13A	Below Partitioning Threshold	9
4045.35	5877.97	-139.8300015	PT-13A	Below Partitioning Threshold	9
4045.35	5877.97	-129.8300015	PT-13A	Below Partitioning Threshold	9
4045.35	5877.97	-119.8300015	PT-13A	Below Partitioning Threshold	9
4045.35	5877.97	-149.8300015	PT-13A	Below Partitioning Threshold	9
4046.69	5711.89	-151.82	PT-15A	Below Partitioning Threshold	9
4046.69	5711.89	-141.82	PT-15A	Below Partitioning Threshold	9
4045.35	5877.97	-169.8299939	PT-13A	Below Partitioning Threshold	9
4046.69	5711.89	-171.82	PT-15A	Below Partitioning Threshold	9
4046.69	5711.89	-161.82	PT-15A	Below Partitioning Threshold	9
4046.69	5711.89	-181.82	PT-15A	Below Partitioning Threshold	9
4324.61	6792.81	-77.71999847	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-67.72000038	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-87.71999847	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-97.71999847	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-117.7199985	Pier25-14	Below Partitioning Threshold	9
4324.61	6792.81	-107.7199985	Pier25-14	Below Partitioning Threshold	9
4251.1	6356.95	-139.0199969	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-129.0199969	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-149.0199969	Pier25-17	Below Partitioning Threshold	9
4329.27	6511.98	-157.7200015	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-137.7200015	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-127.7200015	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-147.7200015	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-117.7200015	Pier25-16	Below Partitioning Threshold	9
4331.66	6046.61	-49.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-44.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-129.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-124.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-119.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-114.52	5106-13	Below Partitioning Threshold	9
4410.74	6652.1	-87.72	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-77.72	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-97.72	Pier25-15	Below Partitioning Threshold	9
4331.66	6046.61	-149.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-134.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-139.52	5106-13	Below Partitioning Threshold	9
4331.66	6046.61	-144.52	5106-13	Below Partitioning Threshold	9
4329.78	5842.96	-76.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-56.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-51.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-46.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-81.82	5106-14	Below Partitioning Threshold	9
4410.74	6652.1	-107.72	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-120.72	Pier25-15	Below Partitioning Threshold	9
4329.78	5842.96	-96.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-86.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-106.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-91.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-111.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-121.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-101.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-116.82	5106-14	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4329.78	5842.96	-126.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-131.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-136.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-151.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-146.82	5106-14	Below Partitioning Threshold	9
4329.78	5842.96	-141.82	5106-14	Below Partitioning Threshold	9
4415.64	6517.66	-87.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-97.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-57.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-117.22	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-49.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-107.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-127.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-39.72	Pier25-20	Below Partitioning Threshold	9
4415.64	6517.66	-137.72	Pier25-20	Below Partitioning Threshold	9
4328.24	6360.66	-47.0199999	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-127.0199985	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-117.0199985	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-97.01999847	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-67.02000038	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-57.02000038	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-147.0199985	Pier25-19	Below Partitioning Threshold	9
4328.24	6360.66	-157.0199985	Pier25-19	Below Partitioning Threshold	9
4259.16	6199.12	-54.32	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-44.32	Pier25-18	Below Partitioning Threshold	9
4328.24	6360.66	-137.0199985	Pier25-19	Below Partitioning Threshold	9
4259.16	6199.12	-134.32	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-124.32	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-144.32	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-154.32	Pier25-18	Below Partitioning Threshold	9
4259.16	6199.12	-164.32	Pier25-18	Below Partitioning Threshold	9
4329.27	6511.98	-57.71999962	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-45.32	Pier25-16	Below Partitioning Threshold	9
4329.27	6511.98	-50.32	Pier25-16	Below Partitioning Threshold	9
4251.1	6356.95	-60.82	Pier25-17	Below Partitioning Threshold	9
4251.1	6356.95	-51.42000038	Pier25-17	Below Partitioning Threshold	9
4035.79	4848.44	-12.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-24.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-15.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-18.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-21.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-33.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-30.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-27.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-36.92	NL-14	Below Partitioning Threshold	9
4035.79	4848.44	-39.92	NL-14	Below Partitioning Threshold	9
4036.19	4917.03	-24.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-9.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-21.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-12.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-15.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-18.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-30.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-33.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-27.62	NL-15	Below Partitioning Threshold	9
4036.19	4917.03	-36.62	NL-15	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4026	4767.98	-21.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-9.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-15.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-12.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-18.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-30.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-27.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-24.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-33.62	NL-13	Below Partitioning Threshold	9
4026	4767.98	-36.62	NL-13	Below Partitioning Threshold	9
4410.74	6652.1	-63.11999962	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-43.1200001	Pier25-15	Below Partitioning Threshold	9
4410.74	6652.1	-53.11999962	Pier25-15	Below Partitioning Threshold	9
4405.01	6778.79	-39.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-49.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-59.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-69.82	Pier25-21	Below Partitioning Threshold	9
4400.99	6048.31	-45.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-42.82	5106-20	Below Partitioning Threshold	9
4405.01	6778.79	-109.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-89.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-99.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-119.82	Pier25-21	Below Partitioning Threshold	9
4405.01	6778.79	-129.82	Pier25-21	Below Partitioning Threshold	9
4400.99	6048.31	-115.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-110.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-105.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-100.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-135.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-120.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-125.82	5106-20	Below Partitioning Threshold	9
4400.99	6048.31	-130.82	5106-20	Below Partitioning Threshold	9
4401.9	5841.8	-45.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-110.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-90.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-95.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-105.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-100.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-115.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-120.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-125.42	5106-21	Below Partitioning Threshold	9
4401.9	5841.8	-130.42	5106-21	Below Partitioning Threshold	9
4472.09	6509.67	-61.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-51.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-91.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-41.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-101.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-81.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-20.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-31.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-111.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-121.22	Pier25-23	Below Partitioning Threshold	9
4472.09	6509.67	-131.22	Pier25-23	Below Partitioning Threshold	9
4414.64	6367.75	-72.31999847	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-62.32000038	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-38.72	Pier25-24	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4414.64	6367.75	-42.3199999	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-52.32000038	Pier25-24	Below Partitioning Threshold	9
4332.11	5724.12	-46.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-56.42	5106-19	Below Partitioning Threshold	9
4414.64	6367.75	-112.3199985	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-122.3199985	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-132.3199985	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-142.3199985	Pier25-24	Below Partitioning Threshold	9
4414.64	6367.75	-152.3199985	Pier25-24	Below Partitioning Threshold	9
4332.11	5724.12	-76.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-66.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-86.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-136.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-126.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-116.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-106.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-96.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-156.42	5106-19	Below Partitioning Threshold	9
4332.11	5724.12	-146.42	5106-19	Below Partitioning Threshold	9
4461.71	6655.52	-20.32	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-29.92000038	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-39.92000038	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-49.91999847	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-59.91999847	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-79.91999847	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-89.91999847	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-99.91999847	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-119.9199985	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-109.9199985	Pier25-22	Below Partitioning Threshold	9
4461.71	6655.52	-129.9199985	Pier25-22	Below Partitioning Threshold	9
4592.4	6514.8	-55.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-45.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-65.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-15.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-75.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-85.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-95.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-35.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-105.72	Pier25-27	Below Partitioning Threshold	9
4592.4	6514.8	-25.72	Pier25-27	Below Partitioning Threshold	9
4404.82	6198.18	-131.42	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-111.42	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-41.42	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-121.42	Pier25-25	Below Partitioning Threshold	9
4404.82	6198.18	-51.42	Pier25-25	Below Partitioning Threshold	9
4483.85	6362.39	-67.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-57.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-17.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-27.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-37.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-47.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-87.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-97.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-107.02	Pier25-26	Below Partitioning Threshold	9
4483.85	6362.39	-117.02	Pier25-26	Below Partitioning Threshold	9
4579.22	6662.11	-34.92	Pier25-28	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4579.22	6662.11	-24.92	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-44.92	Pier25-28	Below Partitioning Threshold	9
4579.22	6662.11	-14.92	Pier25-28	Below Partitioning Threshold	9
4431.29	5647.55	-37.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-47.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-57.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-67.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-77.02	5106-22	Below Partitioning Threshold	9
4579.22	6662.11	-54.92	Pier25-28	Below Partitioning Threshold	9
4431.29	5647.55	-87.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-97.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-107.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-117.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-127.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-137.02	5106-22	Below Partitioning Threshold	9
4431.29	5647.55	-147.02	5106-22	Below Partitioning Threshold	9
4589.88	6359.26	-25.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-15.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-85.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-105.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-75.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-55.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-65.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-35.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-95.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-45.62	Pier25-30	Below Partitioning Threshold	9
4589.88	6359.26	-115.62	Pier25-30	Below Partitioning Threshold	9
4118.59	5990.64	-156.42	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-146.42	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-126.42	5106-2	Below Partitioning Threshold	9
4118.59	5990.64	-136.42	5106-2	Below Partitioning Threshold	9
4136.54	6357.39	-57.52	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-47.52	Pier25-12	Below Partitioning Threshold	9
4136.54	6357.39	-67.52	Pier25-12	Below Partitioning Threshold	9
4140.31	6196.79	-50.62	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-60.62	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-90.62	Pier25-13	Below Partitioning Threshold	9
4177.68	6671.43	-43.62	Pier25-6	Below Partitioning Threshold	9
4140.31	6196.79	-170.62	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-160.62	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-140.62	Pier25-13	Below Partitioning Threshold	9
4140.31	6196.79	-150.62	Pier25-13	Below Partitioning Threshold	9
4177.68	6671.43	-54.12	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-84.12	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-64.12	Pier25-6	Below Partitioning Threshold	9
4177.68	6671.43	-74.12	Pier25-6	Below Partitioning Threshold	9
4588.03	6814.02	-36.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-66.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-14.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-16.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-26.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-46.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-56.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-106.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-96.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-86.42	Pier25-29	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4588.03	6814.02	-76.42	Pier25-29	Below Partitioning Threshold	9
4588.03	6814.02	-116.42	Pier25-29	Below Partitioning Threshold	9
4529.5	5842.99	-42.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-12.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-37.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-47.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-17.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-32.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-22.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-27.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-102.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-107.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-87.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-72.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-92.02	5106-24	Below Partitioning Threshold	9
4529.5	5842.99	-97.02	5106-24	Below Partitioning Threshold	9
4528.95	6045.54	-37.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-17.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-32.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-10.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-52.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-47.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-42.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-22.42	5106-23	Below Partitioning Threshold	9
4528.95	6045.54	-27.42	5106-23	Below Partitioning Threshold	9
4680.53	5841.54	-17.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-12.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-5.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-57.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-82.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-72.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-67.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-62.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-77.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-92.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-87.92	5106-26	Below Partitioning Threshold	9
4680.53	5841.54	-97.92	5106-26	Below Partitioning Threshold	9
4027.66	5002.03	-8.82	NL-17	Below Partitioning Threshold	9
4027.66	5002.03	-11.82	NL-17	Below Partitioning Threshold	9
4027.66	5002.03	-26.82	NL-17	Below Partitioning Threshold	9
4027.66	5002.03	-20.82	NL-17	Below Partitioning Threshold	9
4027.66	5002.03	-17.82	NL-17	Below Partitioning Threshold	9
4027.66	5002.03	-14.82	NL-17	Below Partitioning Threshold	9
3944.82	5250.82	-35.6	16-50	Below Partitioning Threshold	9
3944.94	5255.64	-9.7	16-25	Below Partitioning Threshold	9
3716.13	5946.21	-159.1	4-175R	Below Partitioning Threshold	9
3974.37	4847.75	-31.1	17-50R	Below Partitioning Threshold	9
4688.04	6525.28	-1.82	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-12.82	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-23.32	Pier25-32	Below Partitioning Threshold	9
2922.57	6230.87	-8.8	43-25	Below Partitioning Threshold	9
4688.04	6525.28	-36.82	Pier25-32	Below Partitioning Threshold	9
2847.88	5695.6	-36.2	57-50	Below Partitioning Threshold	9
3662.17	5488.62	-36.3	19-50R	Below Partitioning Threshold	9
2951.53	5603.55	-38.2	56-50	Below Partitioning Threshold	9
4688.04	6525.28	-47.32	Pier25-32	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4688.04	6525.28	-60.32	Pier25-32	Below Partitioning Threshold	9
3983.63	4876.3	-10.7	17-24	Below Partitioning Threshold	9
4688.04	6525.28	-71.32	Pier25-32	Below Partitioning Threshold	9
4688.04	6525.28	-81.32	Pier25-32	Below Partitioning Threshold	9
3172.91	5672.47	-8.1	25A-25	Below Partitioning Threshold	9
3360.55	4983.88	-34.9	23-50	Below Partitioning Threshold	9
2947.47	6110.08	-35.7	34-50	Below Partitioning Threshold	9
4678.07	6046.97	-8.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-13.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-18.72	5106-27	Below Partitioning Threshold	9
3963.1	5672.19	-10.05	60-25	Below Partitioning Threshold	9
3987.68	5654.38	-11.7	15-25R	Below Partitioning Threshold	9
3975.37	5449.99	-36.17	68-50	Below Partitioning Threshold	9
4678.07	6046.97	-27.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-57.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-23.72	5106-27	Below Partitioning Threshold	9
3957.3	5602.89	-37.6	69-50	Below Partitioning Threshold	9
3956.91	5693.64	-44.7	T5-60	Below Partitioning Threshold	9
3213.75	5159.8	-84.2	46-100	Below Partitioning Threshold	9
3844.58	5985.93	-10.28	T1-25	Below Partitioning Threshold	9
3922.77	5696.53	-10	T6-25	Below Partitioning Threshold	9
3844.03	5979.71	-35.35	T1-50	Below Partitioning Threshold	9
3212.16	5166.19	-34.2	46-50	Below Partitioning Threshold	9
4678.07	6046.97	-87.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-77.72	5106-27	Below Partitioning Threshold	9
4678.07	6046.97	-67.72	5106-27	Below Partitioning Threshold	9
3621.92	5604.26	-44	22-70	Below Partitioning Threshold	9
3937.79	5919.44	-28.82	1-45	Below Partitioning Threshold	9
3098.98	5656.4	-11.2	25-25	Below Partitioning Threshold	9
3099.1	5660.73	-36.3	25-50	Below Partitioning Threshold	9
4633.16	5710.77	-29.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-39.52	5106-25	Below Partitioning Threshold	9
3975.7	6719.15	-38	70-50	Below Partitioning Threshold	9
3941.76	6321.84	-12.72	72-25	Below Partitioning Threshold	9
3940.97	6931.9	-35	41-50	Below Partitioning Threshold	9
3975.26	5446.61	-11.15	68-25	Below Partitioning Threshold	9
3970.06	5403.93	-9.4	2-25	Below Partitioning Threshold	9
4633.16	5710.77	-59.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-69.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-79.52	5106-25	Below Partitioning Threshold	9
4633.16	5710.77	-89.52	5106-25	Below Partitioning Threshold	9
3725.09	5946.16	-101.1	4-115R	Below Partitioning Threshold	9
4792.79	6224.44	-15.9	5106-28	Below Partitioning Threshold	9
4792.79	6224.44	-25.9	5106-28	Below Partitioning Threshold	9
4792.79	6224.44	-35.9	5106-28	Below Partitioning Threshold	9
4792.79	6224.44	-50.9	5106-28	Below Partitioning Threshold	9
3969.75	6090.05	-37.61	73-50	Below Partitioning Threshold	9
3965.43	6089.83	-12.5	73-25	Below Partitioning Threshold	9
4806.58	6070.76	-6.67	5106-29	Below Partitioning Threshold	9
4806.58	6070.76	-15.67	5106-29	Below Partitioning Threshold	9
4806.58	6070.76	-25.67	5106-29	Below Partitioning Threshold	9
3928.98	6931.77	-113.63	41-138	Below Partitioning Threshold	9
3970.91	5410.94	-34.6	2-50	Below Partitioning Threshold	9
3970.91	5413.94	-84.5	2-100	Below Partitioning Threshold	9
4806.58	6070.76	-35.67	5106-29	Below Partitioning Threshold	9
4806.58	6070.76	-45.67	5106-29	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4806.58	6070.76	-55.67	5106-29	Below Partitioning Threshold	9
3305.63	6382.62	-37.21	78-50	Below Partitioning Threshold	9
4858.12	5795	-10.4	5106-30	Below Partitioning Threshold	9
3388.57	6998.95	-128.72	77-140	Below Partitioning Threshold	9
4858.12	5795	-20.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-30.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-40.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-50.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-70.4	5106-30	Below Partitioning Threshold	9
3871.46	6069.72	-32.9	13-49	Below Partitioning Threshold	9
4858.12	5795	-2.4	5106-30	Below Partitioning Threshold	9
4858.12	5795	-60.4	5106-30	Below Partitioning Threshold	9
2788.52	5942.88	-83.5	35-100	Below Partitioning Threshold	9
4633.16	5710.77	-19.52	5106-25	Below Partitioning Threshold	9
4035.54	6536.31	-20.89	PZ-SHI-1-33	Below Partitioning Threshold	9
4037.4	6528.79	-61.62	PZ-SHI-1-75	Below Partitioning Threshold	9
3956.75	5699.17	-9.6	T5-25	Below Partitioning Threshold	9
4633.16	5710.77	-11.52	5106-25	Below Partitioning Threshold	9
4044.58	5116.54	-85.82	PZ-SHI-3-100	Below Partitioning Threshold	9
4044.67	5113.42	-28.78	PZ-SHI-3-42	Below Partitioning Threshold	9
4900.47	5668.49	-6.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-14.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-24.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-34.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-64.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-44.22	5106-31	Below Partitioning Threshold	9
4900.47	5668.49	-54.22	5106-31	Below Partitioning Threshold	9
3173.72	5288.09	-83	8-99R	Below Partitioning Threshold	9
3087.49	6055.59	-85.2	32-100	Below Partitioning Threshold	9
3553.52	5793.08	-32.1	21-48	Below Partitioning Threshold	9
3936.16	5918.75	-9.4	1-25	Below Partitioning Threshold	9
3172.62	5666.08	-33.2	25A-50	Below Partitioning Threshold	9
4856.82	5941.24	-83.12	WW-B4	Below Partitioning Threshold	9
4856.82	5941.24	-88.12	WW-B4	Below Partitioning Threshold	9
4856.82	5941.24	-93.12	WW-B4	Below Partitioning Threshold	9
4704.2	5595.32	-23.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-31.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-41.82	5106-32	Below Partitioning Threshold	9
4856.82	5941.24	-118.12	WW-B4	Below Partitioning Threshold	9
4704.2	5595.32	-51.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-61.82	5106-32	Below Partitioning Threshold	9
4704.2	5595.32	-71.82	5106-32	Below Partitioning Threshold	9
4712.64	6384.86	-3.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-13.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-23.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-33.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-43.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-53.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-63.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-73.37	Pier25-33	Below Partitioning Threshold	9
4712.64	6384.86	-83.37	Pier25-33	Below Partitioning Threshold	9
4708.93	6680.53	-42.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-2.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-12.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-22.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-32.37	Pier25-31	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4708.93	6680.53	-52.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-62.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-72.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-82.37	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-102.87	Pier25-31	Below Partitioning Threshold	9
4708.93	6680.53	-92.37	Pier25-31	Below Partitioning Threshold	9
4027.3	4673.19	-24.82	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-21.82	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-17.82	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-27.82	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-33.82	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-30.82	NL-16	Below Partitioning Threshold	9
4027.3	4673.19	-36.82	NL-16	Below Partitioning Threshold	9
2864.41	5922.21	-41.7	B-3	Below Partitioning Threshold	9
2914.98	6136.64	-41.4	B-2	Below Partitioning Threshold	9
3186.26	5703.74	-40.7	C-5	Below Partitioning Threshold	9
3388.99	6378.14	-42.6	A-5	Below Partitioning Threshold	9
3625.11	6665.67	-41	A-2	Below Partitioning Threshold	9
3489.62	6414.89	-42.5	A-4	Below Partitioning Threshold	9
3280.21	6288.44	-40.4	A-6	Below Partitioning Threshold	9
3160.35	6225.46	-41.3	B-4	Below Partitioning Threshold	9
3624.56	6658.74	-96.2	A-2A	Below Partitioning Threshold	9
3712.33	6672.1	-41.9	A-1	Below Partitioning Threshold	9
3559.84	6549.12	-41.3	A-3	Below Partitioning Threshold	9
3012.61	6209.79	-42.15	B-1	Below Partitioning Threshold	9
3180.6	5875.95	-40	C-3	Below Partitioning Threshold	9
3187.09	5621.98	-40.8	C-6	Below Partitioning Threshold	9
3199.12	5217.05	-41.05	C-10	Below Partitioning Threshold	9
3331.35	6060.97	-41.4	D-2	Below Partitioning Threshold	9
3186.88	5513.56	-40.9	C-7	Below Partitioning Threshold	9
3166.25	5423.4	-41	C-8	Below Partitioning Threshold	9
3187.81	5340.87	-41.2	C-9	Below Partitioning Threshold	9
3700.85	5386.12	-0.4	CH-3	Below Partitioning Threshold	9
3700.85	5386.12	-10.9	CH-3	Below Partitioning Threshold	9
3776.43	5433.83	0.6	CH-4	Below Partitioning Threshold	9
3887.67	5362.38	3.1	CH-1	Below Partitioning Threshold	9
3792.54	5299.16	3.1	CH-2	Below Partitioning Threshold	9
3620.81	5840.62	1.1	SP-5	Below Partitioning Threshold	9
3737.49	5840.39	3.1	SP-6	Below Partitioning Threshold	9
3785.79	5367.88	1.1	CH-5	Below Partitioning Threshold	9
4022.55	5832.33	-18.92	SM2	Below Partitioning Threshold	9
4037.58	5125.88	-14.72	SM3	Below Partitioning Threshold	9
4037.62	6533.09	-21.32	SM1	Below Partitioning Threshold	9
4141.06	5829.21	-43.92	SM5	Below Partitioning Threshold	9
4409.19	5834.42	-41.02	SM9	Below Partitioning Threshold	9
3766.32	5794.47	3.1	SP-3	Below Partitioning Threshold	9
4681.7	5844.03	-3.62	SM11	Below Partitioning Threshold	9
4145.98	5124.56	-47.72	SM6	Below Partitioning Threshold	9
3766.32	5794.47	-47.9	SP-3	Below Partitioning Threshold	9
4388.16	6484.99	-39.82	SM8	Below Partitioning Threshold	9
4108	5596.08	-43.22	SM15	Below Partitioning Threshold	9
3623.15	5675.71	1.1	SP-4	Below Partitioning Threshold	9
4198.09	6179.99	-48.72	SM18	Below Partitioning Threshold	9
4173.27	6027.76	-45.82	SM19	Below Partitioning Threshold	9
4049.59	4906.3	-22.82	SM14	Below Partitioning Threshold	9
4179.45	5706.91	-49.32	SM20	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3846.65	5845.25	1.1	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-23.9	SP-1	Below Partitioning Threshold	9
4308.47	5854.3	-42.32	SM21	Below Partitioning Threshold	9
4253.56	6056.91	-42.22	SM7	Below Partitioning Threshold	9
3846.65	5845.25	-87.9	SP-1	Below Partitioning Threshold	9
4383.75	6193.9	-42.22	SM23	Below Partitioning Threshold	9
4593.38	6522.35	-13.42	SM25	Below Partitioning Threshold	9
3846.65	5845.25	-67.9	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-77.9	SP-1	Below Partitioning Threshold	9
3879.44	5800.06	-12.9	SP-7	Below Partitioning Threshold	9
4114.45	5275.47	-47.92	SM16	Below Partitioning Threshold	9
3879.44	5800.06	2.1	SP-7	Below Partitioning Threshold	9
4519.12	6020.26	-8.72	SM26	Below Partitioning Threshold	9
3879.44	5800.06	-22.9	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-57.9	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-47.9	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-67.9	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-77.9	SP-7	Below Partitioning Threshold	9
3851.78	5669.02	-7.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-12.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-22.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-37.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-47.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-32.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-67.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-57.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-77.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-87.9	SP-2	Below Partitioning Threshold	9
3891.31	5942.9	-12.9	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-7.9	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	0.1	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-22.9	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-37.9	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-67.9	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-87.9	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-77.9	SP-8	Below Partitioning Threshold	9
3887.67	5362.38	-63.4	CH-1	Below Partitioning Threshold	9
3887.67	5362.38	-88.4	CH-1	Below Partitioning Threshold	9
3887.67	5362.38	-13.4	CH-1	Below Partitioning Threshold	9
3887.67	5362.38	-38.4	CH-1	Below Partitioning Threshold	9
3891.31	5942.9	-101.9	SP-8	Below Partitioning Threshold	9
3673.47	5138.61	-12.9	BH-75	Below Partitioning Threshold	9
3887.67	5362.38	-138.4	CH-1	Below Partitioning Threshold	9
3887.67	5362.38	-112.9	CH-1	Below Partitioning Threshold	9
3886.75	5064.74	-12.9	BH-65	Below Partitioning Threshold	9
3886.75	5064.74	-37.9	BH-65	Below Partitioning Threshold	9
3886.75	5064.74	-86.9	BH-65	Below Partitioning Threshold	9
3776.43	5433.83	-63.4	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	-88.4	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	-13.4	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	-38.4	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	-113.4	CH-4	Below Partitioning Threshold	9
3776.43	5433.83	-138.4	CH-4	Below Partitioning Threshold	9
3700.85	5386.12	-38.4	CH-3	Below Partitioning Threshold	9
3700.85	5386.12	-63.4	CH-3	Below Partitioning Threshold	9
3700.85	5386.12	-88.4	CH-3	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3700.85	5386.12	-113.4	CH-3	Below Partitioning Threshold	9
3620.81	5840.62	-98.4	SP-5	Below Partitioning Threshold	9
3620.81	5840.62	-118.4	SP-5	Below Partitioning Threshold	9
3620.81	5840.62	-108.4	SP-5	Below Partitioning Threshold	9
3620.81	5840.62	-128.4	SP-5	Below Partitioning Threshold	9
3792.54	5299.16	-13.4	CH-2	Below Partitioning Threshold	9
3792.54	5299.16	-38.4	CH-2	Below Partitioning Threshold	9
3248.86	5858.49	-3.9	WMUA-13	Below Partitioning Threshold	9
3792.54	5299.16	-63.4	CH-2	Below Partitioning Threshold	9
3792.54	5299.16	-88.4	CH-2	Below Partitioning Threshold	9
3486.64	5981.12	-2.4	WMUA-18	Below Partitioning Threshold	9
3792.54	5299.16	-113.4	CH-2	Below Partitioning Threshold	9
4036.75	5091.63	-21.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-15.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-24.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-27.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-30.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-36.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-39.82	NL-23	Below Partitioning Threshold	9
4036.75	5091.63	-33.82	NL-23	Below Partitioning Threshold	9
3737.49	5840.39	-107.4	SP-6	Below Partitioning Threshold	9
3737.49	5840.39	-117.4	SP-6	Below Partitioning Threshold	9
3737.49	5840.39	-127.4	SP-6	Below Partitioning Threshold	9
3737.49	5840.39	-157.4	SP-6	Below Partitioning Threshold	9
3737.49	5840.39	-147.4	SP-6	Below Partitioning Threshold	9
3737.49	5840.39	-167.4	SP-6	Below Partitioning Threshold	9
3879.44	5800.06	-97.4	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-107.4	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-117.4	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-127.4	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-137.4	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-147.4	SP-7	Below Partitioning Threshold	9
3879.44	5800.06	-157.4	SP-7	Below Partitioning Threshold	9
3846.65	5845.25	-108.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-118.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-128.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-138.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-148.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-158.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-168.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-178.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-187.4	SP-1	Below Partitioning Threshold	9
3846.65	5845.25	-198.4	SP-1	Below Partitioning Threshold	9
3851.78	5669.02	-98.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-109.9	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-128.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-118.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-138.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-148.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-158.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-168.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-178.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-188.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-198.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-208.4	SP-2	Below Partitioning Threshold	9
3851.78	5669.02	-218.4	SP-2	Below Partitioning Threshold	9

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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3623.15	5675.71	-98.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-138.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-118.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-128.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-108.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-158.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-148.4	SP-4	Below Partitioning Threshold	9
3623.15	5675.71	-168.4	SP-4	Below Partitioning Threshold	9
3766.32	5794.47	-98.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-108.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-138.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-118.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-128.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-148.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-158.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-168.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-178.4	SP-3	Below Partitioning Threshold	9
3766.32	5794.47	-188.4	SP-3	Below Partitioning Threshold	9
3891.31	5942.9	-104.4	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-124.4	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-114.4	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-134.4	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-144.4	SP-8	Below Partitioning Threshold	9
3891.31	5942.9	-154.4	SP-8	Below Partitioning Threshold	9
4072.92	4870.47	-33.71	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-48.71	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-43.71	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-38.71	NL-24	Below Partitioning Threshold	9
4072.92	4870.47	-53.71	NL-24	Below Partitioning Threshold	9
4013.98	4548.94	-12.22	NL-28	Below Partitioning Threshold	9
4013.98	4548.94	-17.72	NL-28	Below Partitioning Threshold	9
4013.98	4548.94	-22.72	NL-28	Below Partitioning Threshold	9
4049.34	4592.92	-39.72	NL-26	Below Partitioning Threshold	9
4049.34	4592.92	-34.72	NL-26	Below Partitioning Threshold	9
4013.98	4548.94	-32.72	NL-28	Below Partitioning Threshold	9
4013.98	4548.94	-27.72	NL-28	Below Partitioning Threshold	9
4049.34	4592.92	-44.72	NL-26	Below Partitioning Threshold	9
4017.91	4485.93	-13.82	NL-29	Below Partitioning Threshold	9
4076.51	4698.56	-36.82	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-41.82	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-46.82	NL-25	Below Partitioning Threshold	9
4076.51	4698.56	-51.82	NL-25	Below Partitioning Threshold	9
4049.34	4592.92	-49.72	NL-26	Below Partitioning Threshold	9
4017.91	4485.93	-28.82	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-18.82	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-23.82	NL-29	Below Partitioning Threshold	9
4017.91	4485.93	-33.82	NL-29	Below Partitioning Threshold	9
4076.51	4698.56	-56.82	NL-25	Below Partitioning Threshold	9
4104.18	4529.09	-32.57	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-37.57	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-42.57	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-47.57	NL-30	Below Partitioning Threshold	9
4104.18	4529.09	-52.57	NL-30	Below Partitioning Threshold	9
3167.53	5274.29	-39.5	8-54	Below Partitioning Threshold	9
3136.6	6358.43	-28.92	12-45	Below Partitioning Threshold	9
3629.51	6766.6	-86.4	40A-100	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3617.64	6762.03	-7.9	40A-25	Below Partitioning Threshold	9
3620.06	6756.49	-32.8	40A-50	Below Partitioning Threshold	9
3389.24	7005.44	-88.99	77-100	Below Partitioning Threshold	9
3946.84	6321.58	-37.33	72-50	Below Partitioning Threshold	9
3370.95	6695.29	-83.86	61-100	Below Partitioning Threshold	9
3370.25	6696.01	-9.67	61-25	Below Partitioning Threshold	9
3369.56	6696.73	-34.21	61-50	Below Partitioning Threshold	9
3879.22	6652.77	-11.34	64-25	Below Partitioning Threshold	9
3664.28	5490.92	-11.1	19-25	Below Partitioning Threshold	9
2947.65	6103.95	-85.5	34-100	Below Partitioning Threshold	9
3292.13	5364.46	-84.2	55-100	Below Partitioning Threshold	9
3038.52	6649.16	-86.31	76-100	Below Partitioning Threshold	9
2947.11	6116.55	-11.7	34-25	Below Partitioning Threshold	9
3936.28	6932.29	-85.8	41-100	Below Partitioning Threshold	9
2788.54	5938.84	-30.4	35-50	Below Partitioning Threshold	9
3306.04	6367.8	-1.6	HC-N12342526-6	Below Partitioning Threshold	9
3329.21	6305.62	-1.53	HC-N12342526-7	Below Partitioning Threshold	9
3253.09	6226.94	-1.35	HC-N12342526-8	Below Partitioning Threshold	9
3237.71	4749.53	-3.14	WMUL-01	Below Partitioning Threshold	9
3260.48	4712.51	-3.11	WMUL-02	Below Partitioning Threshold	9
3860.72	4819.82	-3.26	WMUM-01	Below Partitioning Threshold	9
3836.24	4814.44	-3.14	WMUM-02	Below Partitioning Threshold	9
3377.6	6957.62	-6.12	77C-25	Below Partitioning Threshold	9
3377.6	6957.62	-59.12	77C-75	Below Partitioning Threshold	9
3377.6	6957.62	-84.25	77C-100	Below Partitioning Threshold	9
3377.6	6957.62	-41.72	77C-50	Below Partitioning Threshold	9
3929.74	7021.29	-85	41C-100	Below Partitioning Threshold	9
3929.74	7021.29	-10.15	41C-25	Below Partitioning Threshold	9
3929.74	7021.29	-35.13	41C-50	Below Partitioning Threshold	9
3929.74	7021.29	-60.07	41C-75	Below Partitioning Threshold	9
3929.74	7021.29	-154.85	41C-160	Below Partitioning Threshold	9
3362.53	6743.73	-9.61	61C-25	Below Partitioning Threshold	9
3362.53	6743.73	-59.6	61C-75	Below Partitioning Threshold	9
3362.53	6743.73	-34.6	61C-50	Below Partitioning Threshold	9
3362.53	6743.73	-84.71	61C-100	Below Partitioning Threshold	9
3414.25	4036.22	-85.62	93C-100	Below Partitioning Threshold	9
3414.25	4036.22	-116.39	93C-130	Below Partitioning Threshold	9
3414.25	4036.22	-156.45	93C-160	Below Partitioning Threshold	9
3414.25	4036.22	-11.4	93C-25	Below Partitioning Threshold	9
3414.25	4036.22	-36.45	93C-50	Below Partitioning Threshold	9
3414.25	4036.22	-61.45	93C-75	Below Partitioning Threshold	9
2884.71	6618.21	-86.66	91C-100	Below Partitioning Threshold	9
2884.71	6618.21	-59.45	91C-75	Below Partitioning Threshold	9
2814.1	7027.88	-150.8	84C-160	Below Partitioning Threshold	9
2814.1	7027.88	-85.78	84C-100	Below Partitioning Threshold	9
2814.1	7027.88	-115.66	84C-130	Below Partitioning Threshold	9
2814.1	7027.88	-10.88	84C-25	Below Partitioning Threshold	9
2814.1	7027.88	-35.91	84C-50	Below Partitioning Threshold	9
2814.1	7027.88	-60.8	84C-75	Below Partitioning Threshold	9
2884.71	6618.21	-114.18	91C-130	Below Partitioning Threshold	9
2884.71	6618.21	-155.59	91C-160	Below Partitioning Threshold	9
2884.71	6618.21	-11.15	91C-25	Below Partitioning Threshold	9
2884.71	6618.21	-36.16	91C-50	Below Partitioning Threshold	9
2699.59	4831.36	-84.73	92C-100	Below Partitioning Threshold	9
2699.59	4831.36	-114.65	92C-130	Below Partitioning Threshold	9
2699.59	4831.36	-154.29	92C-160	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
2699.59	4831.36	-8.665	92C-25	Below Partitioning Threshold	9
2699.59	4831.36	-34.61	92C-50	Below Partitioning Threshold	9
2699.59	4831.36	-59.61	92C-75	Below Partitioning Threshold	9
3278.12	6377.04	-85.93	78C-100	Below Partitioning Threshold	9
3278.12	6377.04	-131.86	78C-130	Below Partitioning Threshold	9
3278.12	6377.04	-154.3	78C-160	Below Partitioning Threshold	9
3278.12	6377.04	-10.07	78C-25	Below Partitioning Threshold	9
3278.12	6377.04	-35.04	78C-50	Below Partitioning Threshold	9
3278.12	6377.04	-60.03	78C-75	Below Partitioning Threshold	9
4029.03	4235.81	-85.22	95C-100	Below Partitioning Threshold	9
4029.03	4235.81	-115.21	95C-130	Below Partitioning Threshold	9
4029.03	4235.81	-146.17	95C-160	Below Partitioning Threshold	9
4029.03	4235.81	-10.2	95C-25	Below Partitioning Threshold	9
4029.03	4235.81	-35.22	95C-50	Below Partitioning Threshold	9
4029.03	4235.81	-60.2	95C-75	Below Partitioning Threshold	9
2650.87	6134.17	-84.9	85C-100	Below Partitioning Threshold	9
2650.87	6134.17	-114.49	85C-130	Below Partitioning Threshold	9
2650.87	6134.17	-145.19	85C-160	Below Partitioning Threshold	9
2650.87	6134.17	-9.63	85C-25	Below Partitioning Threshold	9
2650.87	6134.17	-34.8	85C-50	Below Partitioning Threshold	9
2650.87	6134.17	-59.82	85C-75	Below Partitioning Threshold	9
3848.61	4502.02	3.44	709-MW2-15	Below Partitioning Threshold	9
3316.09	4576.76	2.1	709-MW17-15	Below Partitioning Threshold	9
3987.36	4352.71	-11.1	721-MW9-25	Below Partitioning Threshold	9
3946.92	4534.38	1.6	709-MW4-15	Below Partitioning Threshold	9
3957.34	4444.53	1.6	709-MW5-15	Below Partitioning Threshold	9
3982.95	4351.41	-1.13	721-MW9-15	Below Partitioning Threshold	9
3982.71	4355.36	-36.4	721-MW9-50	Below Partitioning Threshold	9
3799.74	5967.86	-154.22	90C-160	Below Partitioning Threshold	9
3799.74	5967.86	-114.25	90C-130	Below Partitioning Threshold	9
3799.74	5967.86	-84.25	90C-100	Below Partitioning Threshold	9
3799.74	5967.86	-9.22	90C-25	Below Partitioning Threshold	9
3799.74	5967.86	-34.26	90C-50	Below Partitioning Threshold	9
3909.7	6402.7	-9.96	94C-25	Below Partitioning Threshold	9
3499.91	6054.54	-162.27	53C-160	Below Partitioning Threshold	9
3499.91	6054.54	-9.76	53C-25	Below Partitioning Threshold	9
3909.7	6402.7	-34.94	94C-50	Below Partitioning Threshold	9
3909.7	6402.7	-154.83	94C-160	Below Partitioning Threshold	9
2700.82	5315.22	-8.65	86C-25	Below Partitioning Threshold	9
2700.82	5315.22	-33.7	86C-50	Below Partitioning Threshold	9
2852.18	5320.9	-84.35	87C-100	Below Partitioning Threshold	9
2852.18	5320.9	-114.41	87C-130	Below Partitioning Threshold	9
2852.18	5320.9	-154.41	87C-160	Below Partitioning Threshold	9
2852.18	5320.9	-9.38	87C-25	Below Partitioning Threshold	9
2852.18	5320.9	-34.38	87C-50	Below Partitioning Threshold	9
2852.18	5320.9	-59.36	87C-75	Below Partitioning Threshold	9
3490.4	5797.78	-151.34	21C-160	Below Partitioning Threshold	9
3490.4	5797.78	-57.73	21C-75	Below Partitioning Threshold	9
3490.4	5797.78	-104.71	21C-130	Below Partitioning Threshold	9
3490.4	5797.78	-32.75	21C-50	Below Partitioning Threshold	9
3490.4	5797.78	-7.71	21C-25	Below Partitioning Threshold	9
3944.78	6070.07	-10.46	83C-25	Below Partitioning Threshold	9
3944.78	6070.07	-154.98	83C-160	Below Partitioning Threshold	9
3490.4	5797.78	-78.66	21C-100	Below Partitioning Threshold	9
3704.54	4195.41	-1.2	721-MW6-15	Below Partitioning Threshold	9
3709.86	4193.83	-11.23	721-MW6-25	Below Partitioning Threshold	9

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 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3705.87	4190.48	-36.32	721-MW6-50	Below Partitioning Threshold	9
2700.82	5315.22	-83.71	86C-100	Below Partitioning Threshold	9
2700.82	5315.22	-113.76	86C-130	Below Partitioning Threshold	9
2700.82	5315.22	-153.35	86C-160	Below Partitioning Threshold	9
2700.82	5315.22	-58.71	86C-75	Below Partitioning Threshold	9
3871.38	6653.11	-161.47	64-170	Below Partitioning Threshold	9
3979.57	5363.95	-10.99	67-25	Below Partitioning Threshold	9
3196.31	4547.26	-10.3	709-MW18-25	Below Partitioning Threshold	9
3185.41	4547.61	1.6	709-MW18-15	Below Partitioning Threshold	9
3877.94	6643.31	-85.23	64-100	Below Partitioning Threshold	9
3974.47	5363.91	-36.56	67-50	Below Partitioning Threshold	9
3192.06	4547.49	-35.15	709-MW18-50	Below Partitioning Threshold	9
3951.78	5603.17	-12.41	69-25	Below Partitioning Threshold	9
3871.97	5026.95	-10.15	80-25	Below Partitioning Threshold	9
3456.52	4576.15	0.6	709-MW16-15	Below Partitioning Threshold	9
3452.27	4569.78	-10.29	709-MW16-25	Below Partitioning Threshold	9
3181.44	4394.53	1.55	709-MW21-15	Below Partitioning Threshold	9
3176.34	4394.16	-10.02	709-MW21-25	Below Partitioning Threshold	9
3171.57	4394.1	-35.04	709-MW21-50	Below Partitioning Threshold	9
3939.87	6513.26	-11.68	71-25	Below Partitioning Threshold	9
3944.1	6513.15	-37.3	71-50	Below Partitioning Threshold	9
3921.89	4407.05	1.46	709-MW7-15	Below Partitioning Threshold	9
3734.15	4482.66	1.39	709-MW19-15	Below Partitioning Threshold	9
3457.54	4568.8	-35.42	709-MW16-50	Below Partitioning Threshold	9
3463.43	4568.25	-60.44	709-MW16-75	Below Partitioning Threshold	9
3835.2	5981.35	-35.33	T3-50	Below Partitioning Threshold	9
3299.14	4413.62	1.1	709-MW11-15	Below Partitioning Threshold	9
3300.57	4424.34	-11.28	709-MW11-25	Below Partitioning Threshold	9
3934.82	5514.67	-82.4	82-100	Below Partitioning Threshold	9
3404.24	4324.31	1.47	721-MW12-15	Below Partitioning Threshold	9
3404.16	4318.3	-10.08	721-MW12-25	Below Partitioning Threshold	9
3403.74	4312.6	-46	721-MW12-50	Below Partitioning Threshold	9
3215.03	4231.93	1.3	721-MW15-15	Below Partitioning Threshold	9
3214.94	4225.7	-10.17	721-MW15-25	Below Partitioning Threshold	9
3214.86	4219.45	-35.1	721-MW15-50	Below Partitioning Threshold	9
3832.63	4203.35	1.48	721-MW11-15	Below Partitioning Threshold	9
3837.79	4203.29	-10.03	721-MW11-25	Below Partitioning Threshold	9
3848.9	4204.18	-60.04	721-MW11-75	Below Partitioning Threshold	9
3410.49	4175.13	1.46	721-MW13-15	Below Partitioning Threshold	9
3410.44	4168.76	-10.11	721-MW13-25	Below Partitioning Threshold	9
3410.32	4163.46	-35.16	721-MW13-50	Below Partitioning Threshold	9
2944.21	5720.53	-12.4	36-25	Below Partitioning Threshold	9
2947.93	5706.11	-86.8	36-100R	Below Partitioning Threshold	9
2945.53	5714.75	-36.8	36-50	Below Partitioning Threshold	9
3844.29	4203.73	-35.04	721-MW11-50	Below Partitioning Threshold	9
3974.49	4832.22	-10.23	17C-25	Below Partitioning Threshold	9
3622.55	6282.19	-10.18	11-25	Below Partitioning Threshold	9
3974.49	4832.22	-105.33	17C-130	Below Partitioning Threshold	9
3974.49	4832.22	-35.27	17C-50	Below Partitioning Threshold	9
3974.49	4832.22	-60.32	17C-75	Below Partitioning Threshold	9
4061.85	4194.67	-36.84	721-MW10-50	Below Partitioning Threshold	9
3623.26	6285.69	-165.62	11-183	Below Partitioning Threshold	9
3195.39	4697.3	-85.8	9-100	Below Partitioning Threshold	9
3614.05	6284.57	-27.62	11-45	Below Partitioning Threshold	9
3609.42	6282.61	-60.65	11-75	Below Partitioning Threshold	9
3974.49	4832.22	-85.34	17C-100	Below Partitioning Threshold	9

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**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
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 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3974.49	4832.22	-155.29	17C-160	Below Partitioning Threshold	9
4057.17	4194.34	-11.8	721-MW10-25	Below Partitioning Threshold	9
4053.81	4199.33	-60.02	721-MW10-75	Below Partitioning Threshold	9
3196.36	4691.98	-35.7	9-50	Below Partitioning Threshold	9
3586.7	5292.26	-10.8	5-25	Below Partitioning Threshold	9
3590.23	5302.43	-85.8	5-100	Below Partitioning Threshold	9
3584.06	5302.43	-35.8	5-50	Below Partitioning Threshold	9
3629.07	4598.29	-85.3	6A-100	Below Partitioning Threshold	9
3620.68	4599.63	-35.6	6A-50	Below Partitioning Threshold	9
3241.66	6048.2	-84.7	7-100	Below Partitioning Threshold	9
3247.25	6051.43	-165.5	7-181	Below Partitioning Threshold	9
4059.32	4198.68	-1.87	721-MW10-15	Below Partitioning Threshold	9
3208.15	4356.16	1.64	721-MW14-15	Below Partitioning Threshold	9
3196.15	4687.6	-10.9	9-25	Below Partitioning Threshold	9
3742.84	5104.86	-60.27	75-75	Below Partitioning Threshold	9
3823.26	4572.13	2.55	709-MW6-15	Below Partitioning Threshold	9
3875.19	4329.48	-1.31	721-MW7-15	Below Partitioning Threshold	9
3802.87	4410.34	1.74	709-MW8-15	Below Partitioning Threshold	9
3814.21	4571.1	-10.94	709-MW6-25	Below Partitioning Threshold	9
3832.28	4573.58	-35.01	709-MW6-50	Below Partitioning Threshold	9
3208.15	4351.63	-9.87	721-MW14-25	Below Partitioning Threshold	9
3208.31	4346.4	-34.9	721-MW14-50	Below Partitioning Threshold	9
3742.72	5097.79	-85.29	75-100	Below Partitioning Threshold	9
3742.29	5092.64	-115.2	75-130	Below Partitioning Threshold	9
3743.63	5109.94	-35.36	75-50	Below Partitioning Threshold	9
3703.42	4612.79	0.6	48-15	Below Partitioning Threshold	9
2744.49	6112.6	-9.1	42-25	Below Partitioning Threshold	9
2743.34	6120.36	-34.1	42-50	Below Partitioning Threshold	9
2634.48	5938.69	-9.2	44-25	Below Partitioning Threshold	9
3057.89	5166.54	-85.9	45-100	Below Partitioning Threshold	9
3057.94	5156.09	-35.2	45-50	Below Partitioning Threshold	9
3172.61	5274.39	-8.5	8-23	Below Partitioning Threshold	9
3941.8	4590.88	2.6	49-15	Below Partitioning Threshold	9
3785.94	4612.1	0.4	50-15	Below Partitioning Threshold	9
2639.24	5938.88	-34.2	44-50	Below Partitioning Threshold	9
3987.27	5106.24	-11.05	65-25	Below Partitioning Threshold	9
3988.25	5102.72	-36.04	65-50	Below Partitioning Threshold	9
3983.57	5118.3	-85.94	65-100	Below Partitioning Threshold	9
3984.26	5125.93	-115.73	65-130	Below Partitioning Threshold	9
3978.56	5774.25	-10.7	14-25R	Below Partitioning Threshold	9
3983.33	5782.45	-37.6	14-50R	Below Partitioning Threshold	9
3992.57	5668.4	-36.6	15-50R	Below Partitioning Threshold	9
3597.87	4830.56	-9	18-25	Below Partitioning Threshold	9
3611.93	4573.11	-37.06	709-MW15A-50	Below Partitioning Threshold	9
3578.2	4413.83	0.1	709-MW9-15	Below Partitioning Threshold	9
3574.44	4409.1	-10.14	709-MW9-25	Below Partitioning Threshold	9
3765.31	5442.5	-35.9	81-50	Below Partitioning Threshold	9
3982.11	5657.73	-105.5	15-120	Below Partitioning Threshold	9
3601.67	4578.12	1.53	709-MW15-15	Below Partitioning Threshold	9
3095.86	5953.03	0.87	24-15	Below Partitioning Threshold	9
3655.31	4832.52	-35.5	18-50R	Below Partitioning Threshold	9
3097.03	5948.73	-20.3	24-35	Below Partitioning Threshold	9
2792.54	5951.95	-84.15	35-100R	Below Partitioning Threshold	9
2778.18	5945.66	-10.6	35-25	Below Partitioning Threshold	9
3963.44	5677.79	-34.87	60-50	Below Partitioning Threshold	9
2851.76	4825.98	-84.99	88C-100	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
2851.76	4825.98	-114.98	88C-130	Below Partitioning Threshold	9
2851.76	4825.98	-155.02	88C-160	Below Partitioning Threshold	9
2851.76	4825.98	-10	88C-25	Below Partitioning Threshold	9
2851.76	4825.98	-35	88C-50	Below Partitioning Threshold	9
2851.76	4825.98	-60	88C-75	Below Partitioning Threshold	9
2944.45	4349.08	2.29	HC-N11-5	Below Partitioning Threshold	9
3003.36	4283.48	1.57	HC-N11-6	Below Partitioning Threshold	9
3006.67	4420.98	2.16	HC-N11-8	Below Partitioning Threshold	9
3375.36	4994.32	-9.8	23-25R	Below Partitioning Threshold	9
3716.02	6518	-85.76	74-100	Below Partitioning Threshold	9
3719.08	6087.33	-37.4	10-50	Below Partitioning Threshold	9
2953.52	6099.62	-10.18	34-25R	Below Partitioning Threshold	9
2948.63	6104.01	-34.42	34-50R	Below Partitioning Threshold	9
2952.01	6110.27	-59.93	34-75	Below Partitioning Threshold	9
2958.05	6104.74	-112.09	34C-130	Below Partitioning Threshold	9
2958.05	6104.74	-151.52	34C-160	Below Partitioning Threshold	9
3716.52	6505.26	-35.76	74-50	Below Partitioning Threshold	9
3716.27	6511.84	-60.76	74-75	Below Partitioning Threshold	9
4171.03	6502.01	-46.5	WW-A1R	Below Partitioning Threshold	9
3139.5	6289.88	-33.2	12A-50	Below Partitioning Threshold	9
3952.27	4490.63	0.86	709-MW20-15	Below Partitioning Threshold	9
3138.33	6302.45	-8.3	12A-25	Below Partitioning Threshold	9
2958.05	6104.74	-82.3	34C-100	Below Partitioning Threshold	9
3617.03	6691.64	-82.68	40-100R	Below Partitioning Threshold	9
3603.45	6675.7	-8.6	40-25	Below Partitioning Threshold	9
3613.39	6678.07	-34.1	40-50	Below Partitioning Threshold	9
3610.27	6697.08	-61.21	40-75	Below Partitioning Threshold	9
3946.02	4491.93	-34.29	709-MW20-50	Below Partitioning Threshold	9
4171.03	6502.01	-51.5	WW-A1R	Below Partitioning Threshold	9
4171.03	6502.01	-42.5	WW-A1R	Below Partitioning Threshold	9
3257.45	5208.55	-10.57	46C-25	Below Partitioning Threshold	9
3205.76	5808.8	-34.77	89C-50	Below Partitioning Threshold	9
3205.17	5803.7	-10.43	89C-25	Below Partitioning Threshold	9
3257.45	5208.55	-85.38	46C-100	Below Partitioning Threshold	9
3257.45	5208.55	-115.29	46C-130	Below Partitioning Threshold	9
3257.45	5208.55	-155.19	46C-160	Below Partitioning Threshold	9
3257.45	5208.55	-35.52	46C-50	Below Partitioning Threshold	9
3257.45	5208.55	-60.51	46C-75	Below Partitioning Threshold	9
3955.34	4497.11	-61.56	709-MW20-75	Below Partitioning Threshold	9
4171.03	6502.01	-60.5	WW-A1R	Below Partitioning Threshold	9
4171.03	6502.01	-70.5	WW-A1R	Below Partitioning Threshold	9
3947.58	4495.42	-8.97	709-MW20-25	Below Partitioning Threshold	9
3206.51	5820.81	-60.02	89C-75	Below Partitioning Threshold	9
3212.16	5809.44	-84.88	89C-100	Below Partitioning Threshold	9
3290.13	5356.93	-8.74	55-25	Below Partitioning Threshold	9
3338.07	4598.68	1.8	52-15	Below Partitioning Threshold	9
4171.03	6502.01	-125.5	WW-A1R	Below Partitioning Threshold	9
3144.03	6377.59	-88.28	12-100	Below Partitioning Threshold	9
3139.66	6361.25	-144.02	12-160	Below Partitioning Threshold	9
3141.12	6380.49	-10.6	12-25	Below Partitioning Threshold	9
3117.84	6367.38	-58.73	12-75	Below Partitioning Threshold	9
3087.45	6051.11	-35.3	32-50R	Below Partitioning Threshold	9
3291.56	5356.75	-35.1	55-50	Below Partitioning Threshold	9
3606.43	5301.98	-59.5	5-75	Below Partitioning Threshold	9
3212.16	5809.44	-114.86	89C-130	Below Partitioning Threshold	9
3923.84	5689.66	-44.9	T6-60	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
4045.21	5120.77	-60.28	PZ-SHI-3-75	Below Partitioning Threshold	9
3725.55	4366.54	-11.03	721-MW5-25	Below Partitioning Threshold	9
4171.03	6502.01	-146.5	WW-A1R	Below Partitioning Threshold	9
4171.03	6502.01	-135.5	WW-A1R	Below Partitioning Threshold	9
4020.83	5822.63	-86.14	PZ-SHI-2-100	Below Partitioning Threshold	9
3720.23	4367.18	-1.02	721-MW5-15	Below Partitioning Threshold	9
3723.03	4362.25	-35.11	721-MW5-50	Below Partitioning Threshold	9
3728.07	4360.6	-60.19	721-MW5-75	Below Partitioning Threshold	9
4030.82	4229.82	1.5	95-15	Below Partitioning Threshold	9
3957.45	5688.31	-104.3	T5-120	Below Partitioning Threshold	9
4380.74	6858.83	-44.4	WW-A1D	Below Partitioning Threshold	9
3976.16	6723.89	-11.99	70-25	Below Partitioning Threshold	9
4380.74	6858.83	-48.4	WW-A1D	Below Partitioning Threshold	9
4380.74	6858.83	-53.4	WW-A1D	Below Partitioning Threshold	9
3955.9	4708.5	-9.9	3-25	Below Partitioning Threshold	9
2962.78	6313.52	-33.8	43-50	Below Partitioning Threshold	9
4380.74	6858.83	-89.4	WW-A1D	Below Partitioning Threshold	9
3929.74	7021.29	-96.71	41C-130	Below Partitioning Threshold	9
4380.74	6858.83	-119.4	WW-A1D	Below Partitioning Threshold	9
4380.74	6858.83	-109.4	WW-A1D	Below Partitioning Threshold	9
4380.74	6858.83	-129.4	WW-A1D	Below Partitioning Threshold	9
4380.74	6858.83	-139.4	WW-A1D	Below Partitioning Threshold	9
4380.74	6858.83	-152.4	WW-A1D	Below Partitioning Threshold	9
3736.82	6790.48	-61.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-71.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-101.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-91.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-81.59	H-01	Below Partitioning Threshold	9
3736.82	6790.48	-161.59	H-01	Below Partitioning Threshold	9
3764.67	7098.9	-46.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-66.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-76.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-56.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-106.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-96.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-86.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-126.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-116.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-136.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-146.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-156.83	F-Deep	Below Partitioning Threshold	9
3764.67	7098.9	-166.83	F-Deep	Below Partitioning Threshold	9
3602.81	6581.91	-60.43	EXT-9	Below Partitioning Threshold	9
3602.81	6581.91	-70.43	EXT-9	Below Partitioning Threshold	9
3602.81	6581.91	-80.43	EXT-9	Below Partitioning Threshold	9
3602.81	6581.91	-180.43	EXT-9	Below Partitioning Threshold	9
3602.81	6581.91	-190.43	EXT-9	Below Partitioning Threshold	9
3146.89	7018.33	-52.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-42.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-62.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-72.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-82.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-92.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-112.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-102.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-122.62	G	Below Partitioning Threshold	9

APPENDIX S

**BELOW PARTITIONING THRESHOLD OR NEGATIVE DYE TEST - KUEPER-DAVIES DNAPL EVALUATION
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON**

<i>X</i>	<i>Y</i>	<i>Elevation</i>	<i>sys_loc_code</i>	<i>Classification</i>	<i>Class CODE</i>
3146.89	7018.33	-152.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-162.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-172.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-197.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-182.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-202.62	G	Below Partitioning Threshold	9
3146.89	7018.33	-212.62	G	Below Partitioning Threshold	9
3799.93	6470.18	-62.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-72.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-82.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-182.45	SB-B-DEEP	Below Partitioning Threshold	9
3799.93	6470.18	-172.45	SB-B-DEEP	Below Partitioning Threshold	9
3909.7	6402.7	-59.82	94C-75	Below Partitioning Threshold	9
3909.7	6402.7	-114.51	94C-130	Below Partitioning Threshold	9
3146.89	7018.33	-209.52	G	Below Partitioning Threshold	9
3764.64	7104.33	-126.35	F-Intermediate	Below Partitioning Threshold	9
3153.43	7018.66	-158.11	G-Intermediate	Below Partitioning Threshold	9
3764.67	7098.9	-162.33	F-Deep	Below Partitioning Threshold	9
3620.84	6279.33	-83.5	11-100	Below Partitioning Threshold	9
3606.65	6586.76	-186.92	EXT-9-Deep	Below Partitioning Threshold	9
3769.26	7104.02	-84.3	F-Shallow-New	Below Partitioning Threshold	9

APPENDIX S

KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Single component soil threshold calculation									
WMUR-06/94C	-126.21	May-12	690000	580000	120000000	140000	53000000		1199.5
WMUR-10	-126.11	Sep-12	180000	530000	61000000		49000000		649.3
WMUG-10	-7.07	Jul-12			32000000		58000000		398.5
WMUR-07	-109.04	Aug-12		8600	15000000	7900	17000000		168.5
WMUR-08	-99.07	Aug-12	18000		15000000	250000	7200000		151.0
WMUR-09	-82.12	Sep-12		39000	7700000		12000000		92.4
WMUG-01	-6.23	May-12			10000000		120000		92.1
WMUR-03	-100.02	Jun-12	9100	460000	7400000	11000	11000000	7800	88.0
WMUR-03	-103.22	Jun-12		9000	8800000		3600000		87.4
WMUA-34	-3.12	Jul-12		38000	6400000		8400000		74.0
WMUR-04	-99.14	Jun-12		26000	5900000		5000000		63.2
WMUR-01	-87.67	Jun-12	1900	300000	5600000	2400	2500000	18000	56.1
WMUG-12	-0.46	Aug-12			5700000		25000		52.4
WMUR-07	-87.14	Aug-12		14000	4300000		190000	11000	39.9
H-01	-134.09	Jun-13	7100	55000	2800000	8600	4900000	2000	34.6
WMUA-41	-3.65	Jun-12			3300000		77000		30.5
EXT-9-Deep	-132.42	Jul-13	13000	200000	2500000	22000	3700000	1200	29.7
WMUR-01	-4.17	Jun-12			3100000		88000		28.7
WMUG-12	-9.96	Aug-12	2800	19000	2600000		1600000	2100	26.8
WMUH-1	-7.65	Jun-04	8.9	13000	2700000	46	19000	120	24.9
5106 T4-100	-42.82	Nov-95			2500000		300000		23.5
SB-B-DEEP	-140.45	Aug-13	2000	23000	2100000		1700000		22.4
WMUR-01	-7.67	Jun-12			2000000		1200000		20.5
5106 T5-250	-37.37	Nov-95			2100000		540000		20.3
WMUG-03	-18.12	May-12	680	460	1800000	240	1300000		18.9
H-01	-129.09	Jun-13	5500	48000	1400000	6400	3200000	1100	18.7
WMUR-10	-135.91	Sep-12		180000	1800000		300000		17.2
5106 T1-100	-40.67	Nov-95			1600000		150000		15.0
5106 T1-50	-43.02	Nov-95			1600000		100000		14.9
WMUG-03	-5.92	May-12	260	150	1400000		170000		13.2
PT-13	-49.2	Jun-04			1400000		49000		13.0
SB-B-DEEP	-130.45	Aug-13	5200	34000	1100000	2600	1500000		12.8
EXT-9-Deep	-136.42	Jul-13	4600	89000	1000000	3300	1500000	290	11.9
WMUG-06	-4.07	Jun-12	180	2200	1200000		250000	1600	11.5
EXT-9-Deep	-122.92	Jul-13	1900	50000	930000	4500	1600000	1700	11.5
PT-13	-54.2	Jun-04			960000		1200000		11.0
WMUR-09	-7.62	Sep-12		1300	960000		450000		9.6
EXT-9-Int	-125.94	Aug-13	6000	85000	750000	7400	1200000		9.1
WMUR-09	-75.62	Sep-12		4700	810000		600000		8.5
WMUR-04	-28.54	Jun-12		110000	560000		1700000		8.3
WMUR-05/83C	-77.54	Jun-12	810	68000	840000	690	89000	11000	7.9
WMUR-06/94C	-127.31	May-12	5400	9600	730000	1400	540000		7.7
WMUR-01	-10.17	Jun-12			810000		98000		7.6
WMUR-05/83C	-107.54	Jun-12	2700	9600	560000	730	1200000		7.3
EXT-7	-109.59	Sep-13	1700	23000	470000	760	1500000		7.0
WMUR-09	-79.62	Sep-12		9100	540000		1100000		6.9
WMUR-09	-9.62	Sep-12		1300	530000		690000		6.1
WMUA-36	-0.36	May-12		1000	580000		56000		5.4
WMUR-07	-110.14	Aug-12			530000		270000		5.4
WMUG-06	-8.07	Jun-12	250	1400	400000		830000	3600	5.2
WMUG-01	-13.53	May-12		140	520000		170000		5.1
WMUG-12	-6.66	Aug-12			480000		140000		4.7
H-01	-148.59	Jun-13	1700	70000	340000	2600	750000	5900	4.5
5106 T5-50	-40.97	Nov-95			460000		99000		4.4
WMUR-09	-17.62	Sep-12		1900	400000		390000		4.4
WMUG-12	-5.46	Aug-12			450000		89000		4.3
WMUG-01	-24.23	May-12	91	810	420000	52	140000	340	4.1

APPENDIX S

KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106 T5-450	-44.07	Nov-95			400000		220000		4.1
SB-B-DEEP	-133.45	Aug-13	1600	13000	340000	770	490000	910	4.0
H-01	-154.59	Jun-13	710	7900	310000	1100	630000	260	4.0
WMUR-10	-116.61	Sep-12		3300	370000		300000	740	3.9
5106 T5-450	-42.07	Nov-95			400000		120000		3.9
WMUG-03	-4.92	May-12		190	420000		6600		3.9
SB-B-DEEP	-134.45	Aug-13	2000	15000	330000	980	460000	1100	3.9
WMUA-15	-3.4	Jun-05			390000				3.6
WMUR-07	-112.14	Aug-12		760	320000		330000		3.5
WMUG-03	-17.42	May-12	350	370	280000	160	320000		3.2
WMUR-01	-2.67	Jun-12			340000				3.1
WMUG-12	-30.96	Aug-12		950	300000		200000		3.1
EXT-9-Int	-130.44	Aug-13	250	3400	310000	180	130000		3.1
WMUR-01	-16.17	Jun-12		1900	310000		110000		3.0
WMUR-01	-91.17	Jun-12	710	290000	280000	1200	160000	7300	3.0
EXT-9-Deep	-114.92	Jul-13	350	32000	240000	1500	400000	2200	2.9
WMUR-06/94C	-131.21	May-12	1300	16000	210000	420	490000		2.8
A	-1.12	Jul-13		120	290000		2100		2.7
WMUR-04	-46.64	Jun-12		140000	250000	660	150000	9700	2.6
WMUG-03	-6.92	May-12		69	270000		57000		2.6
SB-B-DEEP	-138.95	Aug-13	1100	9800	210000	770	350000		2.6
WMUR-09	-72.12	Sep-12		3000	230000		200000		2.5
PT-15A	-75.82	Nov-05			267000				2.5
5106 T5-450	-39.77	Nov-95			240000		130000		2.4
WMUG-09	-32.76	Jun-12	77	15000	220000	77	200000	170	2.4
WMUR-09	-84.62	Sep-12		2600	200000		300000		2.4
WMUA-34	-5.12	Jul-12		35000	150000		520000		2.3
WMUG-08	-11.85	Jul-12		3500	240000		57000	8300	2.3
WMUR-06/94C	-139.71	May-12	240	9500	190000	320	310000		2.3
WMUA-14	-7.4	Jun-05			200000		230000	290	2.3
WMUG-11	-7.38	Jul-12			230000		55000		2.2
WMUG-06	-9.57	Jun-12	67	340	190000		240000	830	2.2
PT-15	-32.96	Jun-04			230000		16000		2.1
WMUA-40	-6.23	Jun-12		11000	220000	79	57000		2.1
WMUG-06	-6.07	Jun-12	68	370	190000	23	200000	180	2.1
WMUR-10	-114.61	Sep-12	1400	4100	170000		280000		2.1
A	-111.62	Jul-13	130	2300	190000	83	150000	77	2.0
WMUG-12	-15.46	Aug-12		3900	210000		22000	3700	2.0
WMUR-01	-12.17	Jun-12			210000		21000	520	2.0
5106 T5-175	-32.72	Nov-95			140000		370000		2.0
WMUR-09	-76.62	Sep-12		3200	140000		360000		1.9
WMUG-02	-23.68	May-12	91	250	190000	60	100000		1.9
PT-7	-52.6	Jul-03			195000		60500		1.9
WMUR-04	-8.64	Jun-12			200000		11000		1.9
WMUA-41	-6.15	Jun-12		22000	180000		100000		1.8
WMUG-07	-31.33	Jun-12	110	41000	180000	140	92000	16000	1.8
PT-15	-36.96	Jun-04			200000		2400		1.8
WMUG-10	-9.07	Jul-12			98000		470000		1.7
WMUG-12	-37.46	Aug-12		510	150000		200000		1.7
WMUG-09	-6.26	Jun-12	210	84000	160000	310	110000	310	1.7
WMUR-09	-12.82	Sep-12			180000		13000		1.7
EXT-7	-80.09	Sep-13	410	54000	160000	280	96000	8800	1.7
SB-B-DEEP	-134.95	Aug-13	960	6400	120000	780	290000		1.6
WMUR-07	-113.14	Aug-12		1100	120000	260	250000		1.6
WMUA-13	-3.9	Jun-05	16	3900	150000	200	60000	23	1.5
WMUG-08	-6.35	Jul-12		730	160000		7800	2600	1.5
WMUA-8	-2.4	Oct-06		330	160000		6800		1.5

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUR-05/83C	-12.54	Jun-12	73	24000	120000	520	190000	660	1.5
WMUA-12	-6.4	Jun-05	22	12000	140000	110	81000	140	1.4
WMUA-26	-40.4	Jul-06	19	20000	140000	280	61000	5	1.4
WMUG-10	-4.57	Jul-12			120000		160000	310	1.4
WMUA-13	-7.9	Jun-05	9.2	9200	140000	170	53000	87	1.4
WMUG-07	-19.83	Jun-12		1100	130000		100000		1.4
WMUR-04	-5.14	Jun-12			140000		12000		1.3
WMUG-09	-4.56	Jun-12		1500	140000		5400	220	1.3
SB-B-DEEP	-128.45	Aug-13	2900	14000	25000	1200	580000		1.3
WMUA-40	-1.13	Jun-12		3000	130000		16000	28	1.2
SB-B-DEEP	-136.95	Aug-13	430	4000	96000	270	180000		1.2
WMUG-01	-8.23	May-12			130000		4900		1.2
WMUR-09	-60.12	Sep-12		5800	110000		88000	720	1.2
WMUG-06	-30.57	Jun-12	1000	260000	29000	2300	430000	49000	1.2
EXT-9-Shallow	-109.41	Aug-13	89	21000	72000	750	270000	130	1.2
5106-1	-75.12	Sep-05	329	116000	26700	448	470000	41200	1.2
WMUR-02	-2.85	Jun-12		130	120000		1400	330	1.1
WMUR-05/83C	-79.54	Jun-12	510	25000	110000	440	18000	19000	1.1
WMUR-10	-123.11	Sep-12		1700	88000		130000		1.0
WMUR-05/83C	-11.54	Jun-12	31	18000	93000	210	100000	220	1.0
PT-13A	-39.23	Nov-05			108000				1.0
WMUA-32	-44.4	Aug-06		140	96000	22	60000		1.0
WMUR-01	-19.67	Jun-12		1100	100000		33000		1.0
WMUG-03	-37.22	May-12		670	97000	28	32000	400	0.9
WMUG-03	-11.22	May-12	75		98000		20000		0.9
WMUR-07	-111.64	Aug-12		470	71000		140000		0.9
WMUG-02	-4.68	May-12	62	54	91000		27000		0.9
WMUG-01	-21.23	May-12	82	160	82000	34	62000	21	0.9
WMUA-11	-6.4	Jun-05			87000		31000		0.9
WMUR-10	-108.31	Sep-12		25000	91000		3100	1400	0.9
WMUA-38	-5.28	May-12		1600	88000		10000		0.8
WMUG-09	-45.76	Jun-12	48	7400	75000	39	64000	250	0.8
WMUR-09	-0.12	Sep-12			86000		300		0.8
SB-B-DEEP	-131.45	Aug-13	890	12000	48000	650	190000		0.8
PT-7	-56.6	Jul-03			79200		30200		0.8
EXT-9-Deep	-152.92	Jul-13	290	13000	70000	700	70000	71	0.8
WMUA-16	-7.65	Jun-05		60	75000		20000		0.7
PT-16	-53.75	Jun-04			78000		4500		0.7
WMUA-34	-7.12	Jul-12		170000	29000	1400	210000	1800	0.7
WMUR-04	-68.14	Jun-12		4100	64000		61000	1100	0.7
WMUG-10	-3.57	Jul-12			63000		51000		0.7
WMUR-10	-111.11	Sep-12	1600	6200	31000		210000		0.7
WMUG-09	-35.76	Jun-12	52	1700	61000	36	58000	400	0.7
PH02	-17.78	Sep-12			46000		130000		0.7
WMUG-12	-21.46	Aug-12		1400	52000		98000	1300	0.7
WMUG-01	-5.23	May-12		19	70000		3900	30	0.7
PT-7	-54.6	Jul-03			67100		18000		0.6
WMUR-07	-107.94	Aug-12	240	430	43000	530	140000		0.6
WMUA-18	-27.4	Jun-05			70000				0.6
WMUA-20	-4.4	Jul-06		6100	63000	7.6	27000		0.6
WMUR-01	-62.17	Jun-12		10000	59000		31000	2400	0.6
WMUR-09	-19.12	Sep-12	90	14000	50000	150	75000	290	0.6
WMUR-09	-1.12	Sep-12			65000		200		0.6
WMUG-06	-36.57	Jun-12	29	1700	56000	29	40000	1300	0.6
PT-13	-39.2	Jun-04			63000		3300		0.6
WMUG-01	-31.23	May-12	47	5800	60000	180	12000	21000	0.6
WMUA-15	-5.4	Jun-05	1.1	200	60000		17000		0.6

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-41	4.35	Jun-12			62000		1500		0.6
WMUR-02	-4.05	Jun-12	13	220	62000		1100	770	0.6
WMUR-06/94C	-125.31	May-12	430	2200	37000	140	120000		0.6
EXT-7	-106.59	Sep-13	95	520	37000	140	120000		0.6
WMUG-11	-15.08	Jul-12		400	48000	120	60000	160	0.5
WMUR-04	-18.64	Jun-12		6100	56000		16000		0.5
WMUG-07	-14.83	Jun-12	130	23000	46000	91	56000	880	0.5
WMUG-12	6.04	Aug-12			58000				0.5
WMUA-15	-22.4	Jun-05	2.4	200	57000	41	3300	270	0.5
WMUG-07	-49.83	Jun-12	120	4800	40000	89	85000	99	0.5
WMUG-05	-15.6	Jun-12	65	3600	39000	36	90000	320	0.5
EXT-9-Int	-140.44	Aug-13	360	23000	36000	760	100000		0.5
WMUG-03	-39.72	May-12	35	560	49000	59	38000	16	0.5
WMUG-01	-51.23	May-12	59	890	43000	90	68000	44	0.5
WMUA-39/53C	-32.28	Jun-12		9700	41000		52000	1300	0.5
WMUA-18	-61.4	Jun-05		8700	35000	190	83000		0.5
WMUA-40	-3.73	Jun-12		1700	50000		7300		0.5
WMUG-05	-20.6	Jun-12	59	630	38000	32	64000	27	0.5
PT-15	-22.96	Jun-04			48000		7800		0.5
5106-2	-51.92	Jan-06	240	22000	36000	340	62000	410	0.5
WMUR-01	-17.67	Jun-12		710	47000		11000		0.5
WMUA-39/53C	-67.08	Jun-12		5800	39000		46000		0.4
WMUG-02	-16.88	May-12	59	160	40000	26	41000		0.4
WMUA-14	-7.4	Aug-06	110	61000		990	230000		0.4
WMUA-19	-7.4	Jun-05			43000		22000		0.4
WMUR-02	-12.35	Jun-12			47000		1500	260	0.4
WMUA-7	0.3	Jun-04			46000		460		0.4
5106 T4-50	-39.27	Nov-95			42000		20000		0.4
5106-1	-104.62	Sep-05	31.9		34100	19.2	59000		0.4
WMUA-32	-6.9	Aug-06		1100	42000	3.1	18000		0.4
WMUA-16	-1.9	Jun-05	3.1	130	45000		2500	3.6	0.4
WMUA-8	5.6	Jun-04		12	45000		430	7.5	0.4
WMUA-39/53C	-26.08	Jun-12		11000	31000		67000	660	0.4
WMUR-03	-4.72	Jun-12			44000		850		0.4
WMUA-18	-15.4	Aug-06	9.4	7100	40000	100	18000	560	0.4
WMUR-03	-16.72	Jun-12			43000		1300		0.4
WMUA-38	-0.28	May-12			43000		240		0.4
WMUG-09	-57.26	Jun-12	120	6800	19000	78	120000	110	0.4
WMUR-04	-107.14	Jun-12		11000	38000		20000	1400	0.4
WMUR-03	0.28	Jun-12			42000		1000		0.4
5106 T3-50	-39.97	Nov-95			37000		24000		0.4
WMUG-07	-45.83	Jun-12	330	82000	22000	260	72000	5300	0.4
5106-9	-100.42	Nov-05		3800	20000		100000		0.4
WMUH-1	-3.9	Jun-04	6.9	3700	39000	23	2600	130	0.4
WMUG-05	-29.6	Jun-12	32	9500	30000	37	44000	210	0.4
WMUA-32	-54.4	Aug-06	30	890	26000	33	65000	18	0.4
WMUG-09	-25.26	Jun-12	67	1100	28000	27	50000	320	0.3
WMUA-30	-64.4	Aug-06	38	5700	26000	120	52000	460	0.3
WMUR-08	-107.37	Aug-12		850	21000	190	78000		0.3
WMUA-31	-124.4	Aug-06		11	35000		6000		0.3
PT-17	-34.96	Jun-04			35000		2200		0.3
EXT-9-Deep	-102.92	Jul-13	180	24000	12000	1000	110000	1000	0.3
WMUR-06/94C	-115.72	May-12	790	7600	8300	250	130000	52	0.3
WMUG-07	-62.83	Jun-12	86	2300	16000	240	91000		0.3
WMUR-01	-72.17	Jun-12		3200	18000		79000	650	0.3
WMUA-31	-44.4	Aug-06	7.5	9700	7700	64	130000	8.6	0.3
5106 T2-50	-38.82	Nov-95			32000		7100		0.3

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
EXT-9-Deep	-143.42	Jul-13	250	17000	18000	550	74000	130	0.3
WMUA-39/53C	-41.58	Jun-12		37000			150000	3000	0.3
PT-15A	-85.82	Nov-05			30900				0.3
WMUG-07	-27.33	Jun-12	34	760	26000		22000	610	0.3
PT-14	-9.96	Jun-04			30000		790		0.3
WMUR-04	-78.94	Jun-12		8400	4200	350	130000	2100	0.3
PT-17	-44.96	Jun-04			30000		550		0.3
PT-17	-44.96	Jun-04			30000		550		0.3
WMUG-05	-50.1	Jun-12	170	6500	15000	120	72000	790	0.3
PT-7	-53.6	Jul-03			27300		8920		0.3
5106 T5-100	-20.72	Nov-95			29000				0.3
WMUA-37	-8.72	May-12	15	7500	22000	65	33000	60	0.3
WMUA-15	-12.4	Jun-05		25000	20000		38000	960	0.3
WMUR-01	-22.17	Jun-12		3100	21000		38000	220	0.3
EXT-9	-105.43	Sep-13	44	7100	19000	200	47000	620	0.3
WMUH-1	6.2	Jun-04		20	25000		16000		0.3
EXT-7	-67.09	Sep-13	35	7600	22000	32	27000	4700	0.3
5106-1	-80.12	Sep-05	118	21200	7680	96.1	94200	8310	0.3
WMUA-38	-8.78	May-12		49000	23000	320	4700	7200	0.2
WMUR-06/94C	-116.51	May-12	470	5100	6500	170	100000	24	0.2
WMUR-01	-32.67	Jun-12		14000	19000		32000	390	0.2
WMUA-18	-2.4	Jun-05	7.1	2200	24000	25	9200		0.2
WMUG-03	-46.22	May-12	98	1200	13000	32	65000	12	0.2
WMUG-05	-5.1	Jun-12		120	23000	120	7400	1900	0.2
WMUG-08	-49.85	Jul-12		26000	20000		16000	2100	0.2
WMUG-06	-44.07	Jun-12	75	850	14000	240	52000	38	0.2
WW-A1R	-82.5	Aug-12	700	160000		5600	83000	5900	0.2
WMUA-39/53C	-87.08	Jun-12		58000	10000	350	57000	4500	0.2
H-01	-118.09	Jun-13	900	150000	180	12000	79000	7300	0.2
WMUR-03	-39.72	Jun-12	120	52000	17000	480	20000	6400	0.2
A	-57.12	Jul-13	250	88000	1200	650	92000	6800	0.2
PT-13A	-49.23	Nov-05			23500				0.2
PT-15	-56.96	Jun-04			23000		1200		0.2
WMUA-28	-2.4	Oct-06	4.4	2600	22000	30	5300	33	0.2
WMUH-1	9.6	Jun-04		7.3	19000		21000		0.2
WMUR-05/83C	-69.04	Jun-12	38	5600	18000	29	24000	2500	0.2
WMUA-32	-64.4	Aug-06	37	5700	8300	100	72000	9.3	0.2
WMUG-02	-42.68	May-12	52	1800	16000	72	27000	2200	0.2
EXT-7	-93.39	Sep-13	72	5000	15000	43	28000	2300	0.2
PT-15	-52.96	Jun-04			20000		2400		0.2
PT-11	-61.96	Jun-04			14000		30000		0.2
WMUR-01	-92.87	Jun-12	700	200000	9100	910	3900	16000	0.2
PT-7	-51.6	Jul-03			18800		3830		0.2
WMUA-31	-24.4	Aug-06	8.2	9200	14000	73	24000	150	0.2
WMUR-10	-133.61	Sep-12	140	6800	4000	170	74000		0.2
WMUA-29	-3.4	Jul-06		45	18000	1.6	2000	5.5	0.2
Pier25-12	-87.02	Feb-06	76	27300	6430	360	52900	502	0.2
5106 T5-175	-30.67	Nov-95			14000		20000		0.2
WMUA-16	-102.4	Jun-05	4.7	3000	17000	140	2100	2100	0.2
WMUA-39/53C	-97.08	Jun-12		11000	7600		48000	410	0.2
SB-B-DEEP	-142.45	Aug-13	290	15000	1000	540	79000		0.2
PT-12	-73.76	Jun-04			15000		9800		0.2
Pier25-13	-90.12	Feb-06	130	20000	10000	160	26000	7800	0.1
Pier25-13	-100.12	Feb-06	430	17000	4600	240	55000	940	0.1
SB-B-DEEP	-146.95	Aug-13	150	4100	12000	190	17000		0.1
5106 T5-250	-34.02	Nov-95			11000		21000		0.1
HYD-2	-103.12	Aug-05	65.5	5350	1360	357	67900	210	0.1

APPENDIX S

KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUR-09	-74.12	Sep-12		1200	13000		9600	110	0.1
WMUG-08	-57.35	Jul-12		11000	3000	780	57000	1100	0.1
WMUA-39/53C	-125.58	Jun-12		1800	13000		7000	260	0.1
A	-67.62	Jul-13		23000	9900	120	17000	4700	0.1
WMUA-31	-54.4	Aug-06	27	2200	10000	38	22000	73	0.1
WMUH-2	0.6	Jun-04	19	14000	4200	95	48000	3200	0.1
WMUG-03	-27.22	May-12		97	14000		1700	330	0.1
A	-13.62	Jul-13		12000	13000	87	3500	600	0.1
WMUR-09	-94.62	Sep-12	200	17000	8000	320	27000		0.1
WMUA-8	0.6	Jun-04			14000		170		0.1
Pier25-13	-110.12	Feb-06	220	11000	5300	150	41000	2300	0.1
A	-52.12	Jul-13	110	42000	3100	260	45000	2900	0.1
Pier25-12	-127.02	Feb-06	104	4650	4310	52.1	48000	26.5	0.1
5106-2	-85.92	Jan-06		6000	2900	140	52000	1200	0.1
WMUR-09	1.88	Sep-12			13000		56		0.1
WMUA-30	-124.4	Aug-06		50	11000	2.1	10000		0.1
WMUR-06/94C	-92.21	May-12	160	51000	3600	770	35000	3400	0.1
WMUA-18	-91.4	Jun-05	19	31000	9500	200	9700	4.9	0.1
WMUR-07	-115.14	Aug-12	13	83	11000		8800		0.1
5106-9	-95.42	Nov-05		4500	7400		25000		0.1
WMUA-18	-19.9	Jun-05	14	1600	9700	26	12000	250	0.1
WMUR-03	-106.22	Jun-12			12000		410		0.1
PT-12	-78.76	Jun-04			11000		4800		0.1
SB-B-DEEP	-108.45	Aug-13	260	52000		440	46000	13000	0.1
WMUR-08	-15.67	Aug-12	53	14000	7500	70	19000	890	0.1
PT-12	-69.26	Jun-04			11000		3500		0.1
EXT-7	-101.09	Sep-13	28	1200	7400	24	20000	190	0.1
WMUR-09	-22.12	Sep-12		4700	6900		21000		0.1
WMUA-41	3.35	Jun-12			11000				0.1
5106-2	-95.92	Jan-06	13	310	7200	8.9	19000		0.1
5106-1	-99.62	Sep-05	118	3910	2570	33	41300		0.1
PT-7	-50.6	Jul-03			9430		6050		0.1
WMUA-32	-34.4	Aug-06	6.2	12000	2000	44	41000	77	0.1
5106-1	-90.12	Sep-05	351	20200	1040	123	42300	5880	0.1
WMUR-05/83C	-92.04	Jun-12	290	20000	2700	75	34000	3000	0.1
WMUG-10	-15.07	Jul-12		1400	1000	240	47000		0.1
PT-5	-49.28	Jul-03			6720		18000		0.1
WMUA-31	-14.4	Aug-06	2	480	9700		2600	96	0.1
WMUA-18	-27.4	Aug-06	83	5400		230	49000	3200	0.1
WMUA-34	-46.12	Jul-12		180000	870	1800	2400	9400	0.1
5106-3	-63.32	Sep-05	183	23900	1630	58.8	34700	9450	0.1
WMUA-31	-64.4	Aug-06	22	190	24	29	50000		0.1
5106-2	-105.92	Jan-06		340	8900		3600		0.1
EXT-9-Deep	-94.92	Jul-13	170	38000	1900	820	30000	740	0.1
HYD-1	-117.62	Sep-05	262	10300	1290	123	39200	1080	0.1
WMUA-33	-14.4	Aug-06	1.3	1400	7600	15	9400	6.7	0.1
PT-12	-64.26	Jun-04			8700		3800		0.1
5106-2	-75.92	Jan-06	210	8600	3300	200	29000		0.1
WMUR-10	-137.61	Sep-12		170000	1200	580	700		0.1
PT-9	-51.97	Jul-03			8320		3620		0.1
H-01	-169.09	Jun-13	12	380	7800	22	5100	150	0.1
5106 T3-75	-44.77	Nov-95			8500		1600		0.1
Pier25-13	-70.12	Feb-06	130	27000	1.7	670	38000	750	0.1
WMUG-09	-14.56	Jun-12	19	7300	7600	39	3700	1000	0.1
HYD-2	-113.12	Aug-05	333	14000	630	564	36900	2580	0.1
5106-1	-60.12	Sep-05	366	44100	38	749	33000	1920	0.1
HYD-2	-123.12	Aug-05	189	5130	789	77.2	38500	341	0.1

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUR-03	-44.72	Jun-12	140	81000	3600	450	810	27000	0.1
Pier25-12	-117.02	Feb-06	359	16200	793	130	34900	1310	0.1
PT-13	-65.7	Jun-04			4600		19000		0.1
PT-15	-27.96	Jun-04			8000		1400		0.1
5106 T5-250	-39.82	Nov-95			7000		6400		0.1
NL-13	-8.87	Dec-05	9.32	217	8110	11.2	494	14.5	0.1
PT-13	-43.7	Jun-04			8100		590		0.1
WMUG-13	-7.38	Sep-12	190	4700			40000	440	0.1
WMUA-33	-64.4	Aug-06	27	26000		320	35000	17	0.1
WMUA-22	-41.4	Jul-06	14	110	4700	15	17000	25	0.1
WMUA-6	-14.4	Aug-06		14000	5500	120	9500	460	0.1
WMUR-05/83C	-2.54	Jun-12		19	8000		55		0.1
5106-2	-115.92	Jan-06			7400		3100		0.1
WMUA-31	-84.4	Aug-06	33	10000	20	350	38000	290	0.1
WMUG-08	-41.35	Jul-12	29	7700	7300	61	470	4700	0.1
89C	-12.83	Jun-12		77	7700		120	32	0.1
5106-1	-95.12	Sep-05	170	8000	51.7	92.9	35900	844	0.1
WMUA-15	-3.4	Aug-06	1.7	1300		4.9	38000	2.7	0.1
WMUG-07	-42.33	Jun-12	250	150000	410	570	190	4400	0.1
WMUA-32	-14.4	Aug-06		460	6400	2.2	4300		0.1
PT-9	-50.97	Jul-03			6500		3410		0.1
PT-8	-53.17	Jul-03			5820		6740		0.1
PT-7	-57.6	Jul-03			6380		3300		0.1
WMUA-21	4.6	Jul-06		8.8	7000	2.4	45		0.1
WMUA-28	-7.9	Aug-06		4200	5900		4600		0.1
5106-13	-69.02	Nov-05	110	150000		1600		1600	0.1
WMUR-02	-6.35	Jun-12		12	6900		160	16	0.1
WMUG-08	-47.85	Jul-12		35000	4700		2500	1300	0.1
PT-7	-58.6	Jul-03			6320		2080		0.1
WMUR-03	-62.22	Jun-12		51	6400	160	570	1600	0.1
HYD-2	-133.12	Aug-05	153	3530	193	74	31500	184	0.1
WMUR-01	2.83	Jun-12			6500		210		0.1
EA-2	-14.32	Oct-05		296	6310	1.67	290	355	0.1
WMUR-04	-64.44	Jun-12	56	8600	4900	160	2600	11000	0.1
WMUA-14	-10.4	Aug-06	29	10000	2800	310	15000	130	0.1
PT-9	-49.97	Jul-03			5540		3310		0.1
WMUR-01	-96.67	Jun-12		3900	4600		7200	23	0.1
HYD-1	-127.62	Sep-05	766	126000	39	1730	617	2810	0.1
NL-13	-14.87	Dec-05	8.28	423	5950	35.4	847	21.8	0.1
EA-2	-9.32	Oct-05	8.31	5090	5680	19.8	542	2630	0.1
WMUA-7	5.6	Jun-04			6000		340		0.1
WMUG-01	-60.73	Jun-12	250	5800	91	24	29000	14	0.1
WMUR-05/83C	-103.04	Jun-12	7.2	18	5000	42	5200	1.3	0.1
WMUR-09	2.88	Sep-12			6000		28		0.1
SP-3	10.6	Jun-06			5850		211		0.1
Pier25-17	-98.52	Nov-05	1300	110000		2800	140	10000	0.1
WMUA-36	-13.86	May-12		4100	3900	36	8000	190	0.1
WMUG-09	-62.76	Jun-12	690	56000	88	21000	7400	2400	0.1
WMUR-06/94C	-110.21	May-12	250	32000	2000	520	9400	3500	0.1
WMUA-12	4.1	Jun-05			5300		81		0.0
EXT-7	-78.39	Sep-13	80	16000	4000	120	2100	4200	0.0
WMUR-03	-109.72	Jun-12		42	4300		4600		0.0
WMUA-21	-4.4	Jul-06	5.6	1600	4900	18	990	46	0.0
WMUA-30	-94.4	Aug-06	24	21000	16	420	21000	16	0.0
WMUA-37	-24.72	May-12	29	10000	3900	160	3300	520	0.0
PT-17	-39.46	Jun-04			4900		270		0.0
WMUA-18	-81.4	Jun-05	160	57000	650	510	8100	2300	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
TP-7-93	2.85	Dec-93			4800		510		0.0
WMUR-09	-41.62	Sep-12	150	13000	700	99	17000	4000	0.0
WMUR-04	-37.14	Jun-12	52	25000	2100	170	7400	1200	0.0
NL-14	-18.17	Dec-05	4.61	387	4590	13	307	22.2	0.0
5106-13	-74.02	Nov-05	54	88000		190		17000	0.0
WMUG-09	3.24	Jun-12			4500		62		0.0
5106 T1-400	-39.62	Nov-95			4200		1400		0.0
WMUA-21	-95.4	Jul-06	10	1400	76	69	22000		0.0
PT-9	-48.97	Jul-03			3970		2210		0.0
H-01	-120.59	Jun-13	160	27000	42	1400	15000	1600	0.0
WMUA-37	0.28	May-12		48	4300		320		0.0
PT-8	-52.17	Jul-03			3820		2750		0.0
WMUR-08	-57.67	Aug-12	250	62000		510	480	36000	0.0
WMUR-09	-50.12	Sep-12	110	4900	2200	380	5800	19000	0.0
5106-5	-63.42	Sep-05		640	894		17000		0.0
WMUA-36	-9.36	May-12	70	85000	230	710	520	740	0.0
WMUA-34	-16.62	Jul-12		60000	500	550	5000	500	0.0
Pier25-18	-113.82	Dec-05	56	3300	1100	36	15000	40	0.0
WMUR-06/94C	-101.71	May-12	110	36000	68	280	12000	1700	0.0
5106-1	-70.12	Sep-05	299	64700	72.2	647		27700	0.0
WMUA-31	-34.4	Aug-06	33	3200	770	530	16000	410	0.0
WMUA-18	-51.4	Jun-05	19	1100	120	50	20000	82	0.0
5106-13	-99.02	Nov-05	6.8	12000	8.5		18000		0.0
Pier25-12	-107.02	Feb-06	69.8	4380	2810	56	5210	839	0.0
Pier25-12	-97.02	Feb-06	1720	66500	11	1940	2330	6430	0.0
5106-9	-80.42	Nov-05	500	57000		610	4.6	36000	0.0
WMUA-18	-11.4	Jun-05		170	3500		2700	21	0.0
WMUR-09	-32.62	Sep-12	130	31000		160	13000	1700	0.0
WMUA-30	-54.4	Aug-06	180	70000	580	680	640	1400	0.0
HYD-1	-107.62	Sep-05	226	31500	493	902	8730	5990	0.0
WMUR-02	-31.35	Jun-12		160	3700		1100		0.0
WMUA-22	-31.4	Jul-06	26	8000	7.9	180	18000	210	0.0
5106-13	-64.02	Nov-05	39	86000		200	1.6	220	0.0
WMUG-02	-31.68	May-12	81	590	2100	130	8500	2000	0.0
WMUR-02	-87.85	Jun-12	160	48000		290	7900	3500	0.0
WMUA-21	-13.4	Jul-06	12	1800	3500	69	950	2400	0.0
WMUR-08	-42.17	Aug-12		16000	2900	48	530	2800	0.0
WMUA-32	-24.4	Aug-06	110	320	3200	190	2800	800	0.0
Pier25-17	-88.52	Nov-05	200	80000		1600	150	1100	0.0
NL-14	-11.42	Dec-05	1.75	51.3	3780	3.1	98.4		0.0
PT-14	-34.96	Jun-04			3700		470		0.0
PT-8	-54.17	Jul-03			2820		4810		0.0
WMUA-41	-14.65	Jun-12		7900	3000	72	1700	1500	0.0
WMUA-39/53C	-14.08	Jun-12	1.2	260	3500	3.5	1200	44	0.0
PT-8	-49.17	Jul-03			2480		6210		0.0
TP-4-93	8.35	Dec-93			3600		190		0.0
WMUA-31	-94.4	Aug-06	4.5	3600	140	48	17000	11	0.0
5106-3	-58.32	Sep-05	197	61000	28.5	281	37.3	20600	0.0
WMUA-32	-74.4	Aug-06	27	47000	630	590	1800	12000	0.0
PT-4	-61.17	Jul-03			2940		3340		0.0
Pier25-13	-120.12	Feb-06	95	4500	190	170	16000	8	0.0
5106-9	-75.42	Nov-05	400	71000		370	5.1	6700	0.0
WMUA-8	-92.4	Oct-06		270	900	14	13000		0.0
WW-A1R	-90	Aug-12	98	26000		560	11000	2100	0.0
WMUA-38	-37.28	May-12		260	3100		1700	130	0.0
WMUR-04	-101.64	Jun-12		1300	1800		8000		0.0
WMUA-13	-11.9	Jun-05	47	68000	18	2200	27	1800	0.0

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THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUG-09	-12.76	Jun-12	16	1500	3000	39	720	2300	0.0
WMUR-01	-51.17	Jun-12		420	2600	180	200	16000	0.0
PT-14	-29.96	Jun-04			3100		800		0.0
Pier25-13	-140.12	Feb-06	240	26000	190	600	9300	24	0.0
WMUA-8	9.6	Jun-04			3000		1100		0.0
Pier25-13	-130.12	Feb-06	12	71000		41	19		0.0
PT-9	-47.97	Jul-03			2990		852		0.0
PT-16	-63.25	Jun-04			3000		570		0.0
WMUA-20	3.6	Jul-06		24	3100		19		0.0
WMUG-05	-45.1	Jun-12	210	41000	63	200	2900	15000	0.0
PT-12	-58.76	Jun-04			1600		7500		0.0
5106-5	-53.42	Sep-05		423	1220	3.11	9310	134	0.0
WMUA-17	-92.4	Jun-05	1.7	520	86	9.9	15000	5.6	0.0
WMUR-10	-78.61	Sep-12		28000	1000	700	2500	5700	0.0
HYD-1	-97.62	Sep-05	83.9	25600	2.39	687	9110	348	0.0
NL-13	-11.87	Dec-05	3.05	122	2920	8.35	415	4.98	0.0
WMUA-21	6.6	Jul-06			3000		18		0.0
HYD-2	-93.12	Aug-05	89.3	20100	2.95	571	10200	893	0.0
5106-3	-53.32	Sep-05	99.5	13300	134	367	151	56500	0.0
WMUA-28	-32.4	Oct-06	110	60000		1800	4.8	2200	0.0
PT-17	-36.21	Jun-04			2500		1900		0.0
5106-26	-47.42	Feb-06	190	59000		700	2.7	3300	0.0
EA-2	-24.32	Oct-05	0.877	81.3	2810		178	43.6	0.0
Pier25-18	-103.82	Dec-05	2.2	3900	120	4.2	13000	21	0.0
WMUA-28	-34.4	Aug-06	54	58000	5.6	1500	7.9	3000	0.0
PT-14	-38.96	Jun-04			2700		690		0.0
WMUA-27	-42.4	Oct-06	210	59000		880		1800	0.0
WMUA-15	0.6	Jun-05		18	2800		58		0.0
PT-9	-52.97	Jul-03			2320		2510		0.0
WMUR-02	-64.85	Jun-12		19000	1700	57	290	4700	0.0
WMUA-18	-43.9	Jun-05	28	4100	39	95	13000	240	0.0
SB-B-DEEP	-118.95	Aug-13	140	32000	140	280	5200	3100	0.0
WMUA-38	2.22	May-12	0.42	34	2700	0.51	210	0.77	0.0
WMUA-34	-39.12	Jul-12		49000	370	310	650		0.0
WMUR-07	-75.64	Aug-12	220	28000	380	380	230	26000	0.0
NL-14	-27.17	Dec-05	4.48	40.9	2610	21.5	365		0.0
WMUA-30	-44.4	Aug-06	26	57000	7.3	1100	19	420	0.0
WMUR-10	-107.61	Sep-12	320	38000	560	360	330	6600	0.0
5106-1	-85.12	Sep-05	202	26100	240	91.2	5400	3840	0.0
WMUR-02	-75.35	Jun-12	150	54000		420	180	3500	0.0
5106-9	-85.42	Nov-05	78	41000		430	1.4	19000	0.0
SP-6	10.6	Jun-06	8	8.8	2500	3	540		0.0
Pier25-18	-63.82	Dec-05	830	48000		1200	5.1	6300	0.0
Pier25-18	-73.82	Dec-05	820	46000		930		7000	0.0
5106-2	-135.92	Jan-06		3100	1600		3900		0.0
WMUA-21	-82.4	Jul-06	2.3	46	150	7.8	12000		0.0
Pier25-17	-108.52	Nov-05	29	32000		46	5200	240	0.0
WMUG-02	-57.58	May-12	130	52000	45	710	77	17	0.0
WMUA-39/53C	-57.08	Jun-12	170	31000	170	230	1400	14000	0.0
WMUR-10	-97.51	Sep-12	170	30000		380	3500	8500	0.0
WMUR-04	1.36	Jun-12		0.6	2400		30	0.43	0.0
5106 T1-250	-38.77	Nov-95			2200		1000		0.0
WMUR-04	-89.14	Jun-12	150	25000	200	940	170	25000	0.0
BH-9-96	7	Mar-96			210		11000		0.0
SB-B-DEEP	-97.45	Aug-13	39	13000	300	240	7300	690	0.0
PT-14	-14.96	Jun-04			2000		1700		0.0
WMUG-11	-19.58	Jul-12	1.2	95	2300	0.94	100	110	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Pier25-25	-91.42	Jan-06	374	27700		688	3260	9050	0.0
EA-1	-35.82	Sep-05	4.92	801	1930	3.26	1590	309	0.0
Pier25-2	-108.27	Jul-05	122	43900		1130	375	3870	0.0
WMUR-10	-68.61	Sep-12	20	20000	11	160	6300	2600	0.0
WMUA-18	-7.4	Jun-05		150	2200	5.4	260	3.8	0.0
SP-5	10.6	Jun-06		2.8	2200		280		0.0
PT-9	-46.97	Jul-03			2090		816		0.0
5106-13	-89.02	Nov-05	630	36000	24	700	200	11000	0.0
WMUA-7	-94.4	Aug-06		1100		300	11000		0.0
EA-2	-19.32	Oct-05		31.2	2210		53.1	21.3	0.0
5106-1	-114.62	Sep-05		1930	1400		3700		0.0
A	-18.62	Jul-13		820	2100	6	240	260	0.0
WMUA-30	-104.4	Aug-06	19	670	3.1	6.7	11000	6	0.0
709-MW18-15	-4.4	Jul-95	250				11000		0.0
G	-135.12	Jul-13	37	26000	1.8	1100	4400	1200	0.0
NL-13	-17.87	Dec-05	3.64	133	2060	11.8	426	4.64	0.0
PT-4	-57.17	Jul-03			1420		3610		0.0
Pier25-25	-70.92	Jan-06	338	35900		375		11500	0.0
WMUA-17	-49.4	Jun-05	17	27000	4.8	240	4200	1500	0.0
NL-13	-20.87	Dec-05	63.1	51.4	1720	125	1920	10.1	0.0
WMUA-41	-10.65	Jun-12		41000	170	180		2100	0.0
WMUA-27	-12.4	Oct-06		3400	1400	50	2800		0.0
WMUA-33	-74.4	Aug-06	10	21000	13	1700	5200	7	0.0
5106-9	-90.42	Nov-05	180	40000		330	2	5700	0.0
WMUR-02	-93.85	Jun-12	48	12000	650	71	4300	310	0.0
PT-4	-59.17	Jul-03			1760		1300		0.0
PT-15	-47.96	Jun-04			1200		4100		0.0
PT-6	-48.11	Jul-03			1520		2340		0.0
WMUA-30	-84.4	Aug-06	5	6100	74	27	8300	12	0.0
WMUA-39/53C	-104.58	Jun-12	18	2700	1000	22	4200	540	0.0
EA-1	-100.82	Oct-05	5.24	52.6	1670	7.99	1460	38.2	0.0
WMUA-34	-29.12	Jul-12		41000		590	170	830	0.0
WMUA-30	-114.4	Aug-06		13	1800		770		0.0
PT-7	-55.6	Jul-03			1760		942		0.0
WMUA-17	-41.9	Jun-05	7.4	38000	2	200		4200	0.0
PT-14	-19.96	Jun-04			1800		440		0.0
EXT-9-Deep	-86.92	Jul-13	110	37000		1500		2600	0.0
WMUA-35	-43.04	Oct-12		31000		1800		8800	0.0
WMUR-10	-92.61	Sep-12		35000		470	560	2300	0.0
WMUR-07	-80.64	Aug-12	140	23000		210	480	17000	0.0
WMUR-10	-144.11	Sep-12	63	34000	220	140	170		0.0
WMUA-37	-15.72	May-12		5500	720	74	4100	310	0.0
EA-1	-110.82	Oct-05	2.24	15.6	1520	3.54	1280	14.1	0.0
PT-4	-56.17	Jul-03			1580		981		0.0
WMUA-36	2.64	May-12		61	1700		340		0.0
PT-17	-39.96	Jun-04			1700		310		0.0
Pier25-12	-77.02	Feb-06	57.3	15600		373	5010	1140	0.0
BH-8-96	4.2	Mar-96			1700		290		0.0
WMUG-02	-62.68	May-12	96	28000	29	310	37	11000	0.0
WMUA-28	-14.4	Aug-06	2.1	9500	11	32	6600	12	0.0
SP-3	7.6	Jun-06			1680		269		0.0
5106-5	-68.42	Sep-05		794			8490		0.0
HYD-1	-87.62	Aug-05	26.9	9300	10.4	216	6240	268	0.0
EA-1	-105.82	Oct-05	2.72	29.2	1420	5.64	1290	29	0.0
Pier25-17	-70.32	Dec-05	202	10700	53.3	1440	5130	403	0.0
H-01	-127.59	Jun-13	180	24000		1200	920	7600	0.0
5106-13	-119.02	Nov-05	17	35000	1.1	36	26	1300	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
									Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
NL-14	-15.17	Dec-05	4.01	449	1540	19.3	391	14.4	0.0
PT-6	-50.11	Jul-03			1500		701		0.0
WMUA-28	-22.4	Oct-06	46	33000	15	710	35	1300	0.0
5106-26	-32.42	Feb-06	200	28000		370		7700	0.0
WMUR-02	-54.35	Jun-12			1100	120	720	9200	0.0
WMUA-12	-10.4	Aug-06	19	30000		1100		3700	0.0
WMUR-06/94C	-83.71	May-12	68	26000	30	560	1300	1600	0.0
PT-15	-42.96	Jun-04			1500		320		0.0
WMUG-01	-44.73	May-12	72	16000	110	310	140	17000	0.0
WMUA-12	-10.4	Jun-05			1500		60		0.0
Pier25-19	-126.52	Dec-05	376	25800		511		6940	0.0
Pier25-18	-83.82	Dec-05	420	28000		400		4000	0.0
EA-1	-85.82	Sep-05	14.9	910	1120	7.43	1410	1330	0.0
A	-94.62	Jul-13	25	3900	680	570	130	15000	0.0
PT-4	-60.17	Jul-03			1160		1670		0.0
Pier25-8	-97.42	Aug-05	281	28300		890	81.6	2570	0.0
5106-26	-37.42	Feb-06	92	24000		210	1.3	9600	0.0
Pier25-19	-96.52	Dec-05	350	20800		529		11900	0.0
WMUR-10	-89.11	Sep-12		11000		460	350	23000	0.0
WMUR-07	-96.14	Aug-12		370	1300	11	700	110	0.0
PT-6	-51.11	Jul-03			1180		1360		0.0
5106-20	-85.32	Jan-06	125	16000		396		17200	0.0
WMUR-03	-84.72	Jun-12	80	22000	240	600	120	2400	0.0
5106-1	-109.62	Sep-05		534	702		3330		0.0
5106-24	-66.52	Feb-06	137	21700		132		9610	0.0
WMUG-01	-34.23	May-12	44	5900	250	340	140	21000	0.0
PT-15	-62.96	Jun-04			1300		310		0.0
WMUA-16	-22.65	Jun-05	46	25000	1.9	220	5.5	5400	0.0
WMUG-06	-26.07	Jun-12	30	4300	190	130	3500	7000	0.0
WMUA-40	4.27	Jun-12		10	1300		160		0.0
WMUR-03	-93.22	Jun-12	110	25000		340		4300	0.0
5106-20	-95.32	Jan-06	182	20000		296	20.5	9740	0.0
WMUH-1	1.1	Jun-04		13	1300		57		0.0
WMUA-41	-0.15	Jun-12	0.39	0.46	1300		26	0.72	0.0
PT-17	-54.96	Jun-04			1300		25		0.0
WMUA-27	-52.4	Oct-06	59	28000		130	5	510	0.0
WMUA-20	6.6	Jul-06			1300				0.0
WMUA-29	-51.4	Jul-06	120	17000	3.9	860	15	12000	0.0
5106-2	-55.92	Jan-06	150	23000	51	300	710	450	0.0
EA-1	-13.82	Sep-05	0.556	15	1100	0.932	910	1.78	0.0
5106-1	-56.12	Sep-05	290	15400	117	486	1020	4830	0.0
11-75	-60.75	Jul-12	15	3400	830	230	270	5500	0.0
5106-24	-61.52	Feb-06	121	19000		126	12.6	9920	0.0
PT-4	-58.17	Jul-03			1170		448		0.0
NL-14	-21.17	Dec-05		72.9	1090	20.5	819		0.0
WMUG-05	-62.6	Jun-12	96	2700			5700		0.0
WMUR-01	-81.17	Jun-12	110	23000		2400	190	90	0.0
5106 T3-75	-47.07	Nov-95			970		1400		0.0
5106-24	-56.52	Feb-06	141	18400	52.6	172	81.8	8260	0.0
5106-21	-64.92	Jan-06	129	17300		210		11200	0.0
WMUA-33	-44.4	Aug-06	50	25000	22	420	51	890	0.0
5106-14	-71.32	Dec-05	5.04	320	7.64	535	16.3	30500	0.0
TP-3-93	6.35	Dec-93			1200		64		0.0
5106-24	-81.52	Feb-06	68.1	8470		359		21100	0.0
Pier25-6	-108.52	Aug-05	141	21600		811	463	1880	0.0
WMUR-10	-94.11	Sep-12	120	14000		270	240	13000	0.0
HYD-2	-143.12	Aug-05	38.4	3180	230	57.6	4130	36	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-28	-24.4	Aug-06	120	23000		910		1900	0.0
PT-8	-50.17	Jul-03			953		1150		0.0
H-01	-98.59	Jun-13	69	21000		820	47	4100	0.0
WMUA-34	-23.12	Jul-12		10000	610	110	510		0.0
WMUR-01	-41.67	Jun-12	32	9000	560	88	280	3300	0.0
Pier25-6	-98.52	Aug-05	162	22600		498		2110	0.0
EA-1	-115.82	Oct-05		12.1	1020		669		0.0
Pier25-13	-80.12	Feb-06	230	22000	1.6	510	110	1700	0.0
HYD-1	-147.62	Sep-05	43	4100	318	68.2	3190	38.1	0.0
5106-5	-58.42	Sep-05	4.52	456	439		3280	24.6	0.0
PT-8	-55.17	Jul-03			446		3350		0.0
TP-2-93	8.35	Dec-93			1100				0.0
WMUA-36	-28.36	May-12	53	22000		350	39	1700	0.0
5106-21	-84.92	Jan-06	48.3	4730		140		22800	0.0
WMUG-08	-77.85	Jul-12		4600		640		22000	0.0
5106-14	-66.32	Dec-05	2.28	68.1	16.4	405	5.23	27100	0.0
WMUA-28	-12.4	Oct-06	19	3700	130	48	3900	86	0.0
EA-1	-50.82	Sep-05	5.43	588	815	1.73	997	203	0.0
PT-8	-48.17	Jul-03			910		666		0.0
WMUG-05	-33.6	Jun-12		17		230		27000	0.0
Pier25-25	-80.92	Jan-06	61.6	5510		193		20300	0.0
WMUR-03	-73.72	Jun-12		600	240	250	560	17000	0.0
A	-87.12	Jul-13		1200	670		820	3700	0.0
WMUA-27	-32.4	Oct-06	73	20000	42	640	75	120	0.0
5106-9	-105.42	Nov-05		2000	470		2300		0.0
WMUG-03	2.78	May-12		1.2	980		110		0.0
WMUA-5	5.6	Jun-04			1000				0.0
WMUR-05/83C	-121.54	Jun-12	1	23	790	0.98	980	0.69	0.0
5106-2	-65.92	Jan-06	2.1	97	20	94	34	25000	0.0
5106-20	-90.32	Jan-06	155	8730	88.2	363	71.7	11300	0.0
5106-9	-65.42	Nov-05	19	21000		120		140	0.0
11-75	-52.25	Jul-12		80		170		25000	0.0
WMUA-14	-42.4	Jun-05	18	20000	4.3	130	11	1000	0.0
PT-13	-80.2	Jun-04			680		1400		0.0
SB-B-DEEP	-87.95	Aug-13	33	12000	200	570	450	2200	0.0
WMUA-6	5.6	Jun-04			930		35		0.0
WMUA-36	-34.86	May-12	84	17000		530	33	2800	0.0
5106-21	-59.92	Jan-06	36.5	3340		266	4.64	19500	0.0
SP-6	7.6	Jun-06		1.7	880		130		0.0
PT-13	-84.7	Jun-04			730		890		0.0
WMUG-05	-41.1	Jun-12		14	91	100	44	21000	0.0
Pier25-19	-76.52	Dec-05	141	15600		300		3850	0.0
EA-1	-40.82	Sep-05	16.9	927	580	2.75	1310	153	0.0
5106-21	-54.92	Jan-06		352		394	76	21500	0.0
WMUA-35	-33.04	Oct-12		15000		400	430	1700	0.0
Pier25-17	-118.52	Nov-05	8	17000		29	59	1400	0.0
5106-26	-42.42	Feb-06	88	14000		220	4.7	4500	0.0
WMUA-33	-94.4	Aug-06		510		8.8	4100		0.0
PT-12	-88.26	Jun-04			410		2100		0.0
WMUA-22	-71.4	Jul-06	22	16000		540	5.1	1500	0.0
Pier25-25	-101.42	Jan-06	44.1	5370	50.1	287	32.9	12800	0.0
Pier25-13	-60.12	Feb-06	99	12000		800	17	4700	0.0
WMUG-07	-5.33	Jun-12		16	740	16	190	190	0.0
EA-1	-20.82	Sep-05	2.29	57.9	772	2.02		39.8	0.0
5106-20	-55.32	Jan-06	95	7710		159		10600	0.0
Pier25-18	-93.82	Dec-05	260	14000		340		2000	0.0
5106-9	-60.42	Nov-05	120	16000		130	5.1	400	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106-21	-49.92	Jan-06		182	206	15	113	13800	0.0
WMUA-40	-54.23	Jun-12		150	80	9.6	3400		0.0
5106-21	-69.92	Jan-06	38	2750		113		16100	0.0
WMUA-35	-52.04	Oct-12	39	1400	330	130	1700	72	0.0
5106-20	-70.32	Jan-06	133	10400	2.21	176	11.3	6120	0.0
HYD-2	-83.12	Aug-05	56.2	10100		364		5870	0.0
WMUA-34	-50.32	Jul-12		990	340	730	350	5500	0.0
WMUA-8	-62.4	Oct-06	87	8900	47	840	88	4600	0.0
WMUG-07	-35.83	Jun-12			16	120		18000	0.0
TP-3-93	9.35	Dec-93			700				0.0
WMUR-07	-62.14	Aug-12		140	74	88		16000	0.0
WMUA-30	-74.4	Aug-06	1.8	2600	180	7.4	2000	29	0.0
709-MW19-15	-4.61	Jul-95			690				0.0
Pier25-24	-91.82	Jan-06	97	12000		620		2400	0.0
WMUA-37	2.28	May-12		3.6	670		28		0.0
5106-27	-47.72	Apr-06	73	9400		220		5900	0.0
WMUA-38	-19.68	May-12	1	180	590	27	280	290	0.0
WMUG-08	-82.35	Jul-12		1400		390		15000	0.0
WMUA-22	-101.9	Jul-06		18	200		2300		0.0
PT-14	-49.96	Jun-04			570		300		0.0
Pier25-17	-80.32	Dec-05	95.2	10000	0.506	665	27.2	2980	0.0
Pier25-20	-87.22	Dec-05	61	13000		210		410	0.0
A	-127.12	Jul-13	7.8	2000	270	13	1300	16	0.0
WMUR-08	-60.17	Aug-12		100		61		16000	0.0
5106-24	-76.52	Feb-06	47	7890		34.4		6370	0.0
PT-5	-50.28	Jul-03			602				0.0
5106-13	-109.02	Nov-05	1.2	13000	7.1		7.8		0.0
EA-2	-69.32	Oct-05	9.15	3260	435	7.92	26.4	154	0.0
WMUA-40	0.77	Jun-12		4.4	580	0.55	52	1.5	0.0
5106 T3-50	-38.12	Nov-95			540		250		0.0
Pier25-11	-77.2	Oct-05	72.1	8730		95.8		4690	0.0
Pier25-24	-81.82	Jan-06	54	8400		90		5100	0.0
PT-4	-62.17	Jul-03			520		312		0.0
PT-9	-45.97	Jul-03			579				0.0
Pier25-19	-106.52	Dec-05	71.5	8040		115	266	3730	0.0
5106 T4-100	-44.37	Nov-95			480		450		0.0
WMUA-32	-84.4	Aug-06	40	3100	6.7	530	1800	750	0.0
WMUG-08	-67.35	Jul-12		270		370		14000	0.0
A	-142.62	Jul-13	1.2	210	490	4.1	310	120	0.0
H-01	-164.59	Jun-13	34	110	420	55	670	8.7	0.0
WMUA-31	-74.4	Aug-06	5.9	2700	43	100	2000		0.0
Pier25-25	-110.92	Jan-06		1250	49.1	418	152	10600	0.0
WMUG-04/21C	-12.07	Jun-12	3.2	870	140	7.6	1900	230	0.0
5106-26	-52.42	Feb-06	88	10000		140	1.8	2200	0.0
PT-15	-67.96	Jun-04			540		67		0.0
Pier25-2	-128.27	Jul-05	50.9	9440	5.59	250	155	1690	0.0
PT-6	-49.11	Jul-03			456		451		0.0
WMUA-17	-2.4	Jun-05		91	520		100	8	0.0
A	-156.62	Jul-13	3	360	270	97	350	4800	0.0
WMUA-3	5.6	Jun-04			540		9.4		0.0
WMUG-08	-69.85	Jul-12				250		13000	0.0
WMUA-17	-82.4	Jun-05	1.7	11000	2.4	31	4.1		0.0
WMUA-41	-60.65	Jun-12	50	4200		490		6900	0.0
PT-17	-74.46	Jun-04			470		83		0.0
WMUA-19	-8.9	Jun-05	3.5	170	350	3.8	570	35	0.0
5106-5	-118.42	Sep-05		189	7.6		2260		0.0
5106-9	-120.42	Nov-05		9700		140		270	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Pier25-30	-75.12	Jan-06	39.2	6460		85.4		4060	0.0
5106-26	-22.42	Feb-06	150	8800				1000	0.0
WMUR-03	-53.72	Jun-12	2.1	410	390	8.4	140	210	0.0
EA-1	-90.82	Sep-05	3.45	346	232	2.84	859	687	0.0
5106-20	-65.32	Jan-06	31.8	1800		28.8		9110	0.0
PT-17	-59.96	Jun-04			420		23		0.0
5106-21	-79.92	Jan-06		278		98.4		10600	0.0
PT-16	-58.25	Jun-04			410		39		0.0
A	-117.62	Jul-13	4	38	230	1.8	850	0.8	0.0
5106-2	-145.92	Jan-06	1.5	190	210	3.5	910	19	0.0
PH02	-19.78	Sep-12		69	120		1400		0.0
WMUA-16	-42.4	Jun-05	16	7400		240		1200	0.0
H-01	-103.09	Jun-13	19	4600		350	28	4200	0.0
WMUA-11	-64.4	Aug-06	1.1	7400		39		1400	0.0
WMUA-14	-22.4	Jun-05	1.9	7900	11	19	64	150	0.0
5106-13	-124.02	Nov-05	2.5	8500			2.7		0.0
Pier25-20	-67.22	Dec-05	12	6400		44		2300	0.0
EA-2	-34.32	Oct-05		219	362	1.86	26.8	10.4	0.0
EA-2	-29.32	Oct-05	2.93	1910	259	6.95	148	65.8	0.0
5106-2	-125.92	Jan-06		8200					0.0
WMUA-17	-7.4	Jun-05		360	300	6.2	270	3	0.0
5106-13	-59.02	Nov-05	10	7000		17		1300	0.0
WMUG-02	-52.68	May-12		56	190		880		0.0
NL-16	-16.32	May-06			360		16		0.0
5106-9	-70.42	Nov-05	24	6200		190	1.3	1700	0.0
5106-27	-37.72	Apr-06	66	6800		39		930	0.0
5106-20	-60.32	Jan-06	32.4	3230		27.2		5090	0.0
WMUA-17	1.6	Jun-05	1.1	56	310		160	2.8	0.0
WMUA-17	-72.4	Jun-05	2.1	7300	2.8	23	35	35	0.0
709-MW4-15	3.85	Jan-94			340				0.0
Pier25-20	-77.22	Dec-05	22	7300		69			0.0
5106-1	-65.12	Sep-05	22	7060	6.35	70			0.0
5106-21	-74.92	Jan-06	33.7	2970		129		4730	0.0
WMUA-27	-22.4	Oct-06	17	6800		180	6.5	64	0.0
5106-14	-61.32	Dec-05	12.7	708	10.5	96.4		6990	0.0
NL-15	-8.87	Dec-05		4.03	309		24.8		0.0
NL-2	-0.4	Jun-04		71	300		46		0.0
WMUA-6	-64.4	Aug-06	2.2	6400		220	1	220	0.0
WMUR-02	-20.85	Jun-12	0.57	99	270	0.95	110	190	0.0
NL-16	-21.32	May-06			300		13		0.0
WMUG-06	4.93	Jun-12		0.48	280		36		0.0
WMUR-07	-100.64	Aug-12	0.33	0.41	270	0.28	60		0.0
5106-24	-86.52	Feb-06	7.16	905		88		6120	0.0
Pier25-10	-98.49	Oct-05	64	3600		380	150	1400	0.0
PT-6	-55.11	Jul-03			275				0.0
WMUA-28	-42.4	Oct-06	32	1500	85	630	98	1400	0.0
WMUA-8	-22.4	Oct-06	2.1	94	4.3	3.9	1300	13	0.0
PT-3	-53.27	Jul-03			219		230		0.0
5106-3	-68.32	Sep-05	6.91	564	53		933	6.91	0.0
5106-25	-49.52	Apr-06	47	3400		65		2500	0.0
PT-13	-74.7	Jun-04			150		550		0.0
WMUG-02	2.32	May-12		0.39	250		34		0.0
WMUA-6	-4.4	Aug-06		7.4	250		25		0.0
5106-25	-39.52	Apr-06		96		27		6400	0.0
WMUA-22	-79.4	Jul-06	7.3	5000		140		140	0.0
PT-3	-52.27	Jul-03			240				0.0
PT-6	-57.11	Jul-03			239				0.0

APPENDIX S

KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
A	-81.12	Jul-13		160	15	11	35	5500	0.0
NL-23	-21.07	Aug-06		510	150	15	300	110	0.0
WMUA-8	-52.4	Oct-06				9.3		6100	0.0
5106-10	-71.22	Nov-05	90	1700	8.5	72	59	3100	0.0
EA-2	-39.32	Oct-05	7.08	3190	78.4	15.6	22.3	2.44	0.0
WMUG-08	-85.35	Jul-12		4600				410	0.0
TP-2-93	11.35	Dec-93			220		11		0.0
PT-12	-54.26	Jun-04			200		70		0.0
Pier25-10	-118.49	Oct-05	65	3600		190	130	77	0.0
Pier25-10	-108.49	Oct-05	16	3900		120	23	530	0.0
WMUA-25	-2.4	Jul-06	1.6	4400	2.8	34	23	3.3	0.0
WMUA-17	-32.4	Jun-05	1.2	3800	2.4	28		850	0.0
SS1-95	11.1	Nov-95			200		37		0.0
NL-15	-11.87	Dec-05		9.49	201	2.07	23.4		0.0
H-01	-108.59	Jun-13	2.9	2100	1.4	67	1.9	2700	0.0
NL-2	4.6	Jun-04			200		15		0.0
WMUA-41	-28.15	Jun-12		130	78	40	260	1700	0.0
PT-14	-44.96	Jun-04			180		110		0.0
WMUA-27	-92.4	Oct-06	1.5	470	120	25	270	120	0.0
PT-10	-68.46	Jun-04			9.4		970		0.0
WMUA-20	-13.9	Jul-06	4.9	2600	9	100	46	1500	0.0
WMUG-03	-56.22	May-12	5.2	2400	1.6	17	0.59	2300	0.0
HYD-2	-153.12	Aug-05	7.6	502	55	11.1	599	3.87	0.0
PT-12	-83.76	Jun-04			82		580		0.0
5106-13	-84.02	Nov-05		4300					0.0
5106-13	-79.02	Nov-05		4100		94		66	0.0
PT-2	-55.97	Jul-03					986		0.0
WMUA-40	-13.23	Jun-12	0.5	60	170	19	41	260	0.0
WMUA-16	-10.4	Jun-05		35	7.9	21	9.1	4700	0.0
WMUG-07	4.67	Jun-12		1.3	180		52		0.0
PT-16	-67.5	Jun-04			190				0.0
PT-8	-46.17	Jul-03			165		127		0.0
WMUA-29	-62.4	Jul-06	3.2	230		37		4600	0.0
WMUA-16	-32.4	Jun-05		17	1.3	46		4800	0.0
NL-14	-24.17	Dec-05		42.6	168	5.6	83		0.0
Pier25-28	-34.42	Jan-06	33	2140		97.2		2070	0.0
WMUA-11	-6.4	Aug-06	13	3800		78		27	0.0
5106 T5-50	-37.22	Nov-95			170		45		0.0
EA-2	-44.32	Oct-05	20.1	3610	5.6	14.9	22.8	7.85	0.0
5106-20	-105.32	Jan-06		174		39.5		4360	0.0
WMUA-21	-20.4	Jul-06		3.5	170	1.7	7.4	68	0.0
EA-1	-55.82	Sep-05	1.38	199	92.3	1.31	309	252	0.0
721-BH-13	4.685	May-12			170				0.0
5106 T1-100	-43.42	Nov-95			140		140		0.0
Pier25-19	-86.52	Dec-05		2420		74		1370	0.0
SP-5	4.6	Jun-06			160		22		0.0
WMUA-29	-42.4	Jul-06	2.2	200		49	2	4000	0.0
5106-13	-54.02	Nov-05	40	3400		62		21	0.0
Pier25-16	-117.22	Nov-05	10	727		45.2		3330	0.0
A	-162.62	Jul-13		120	110	19	130	530	0.0
WMUA-39/53C	-115.78	Jun-12		6.4	140		100	0.57	0.0
WMUA-40	-26.23	Jun-12		66	120		180	20	0.0
WMUA-7	-74.4	Aug-06	4.7	1700	2.4	370	9.9	1400	0.0
NL-6	3.1	May-05		15	150		39		0.0
Pier25-22	-69.42	Jan-06	20	3100		110		210	0.0
EXT-7	-11.99	Aug-13		9.6	150	0.88	32	8	0.0
WMUA-29	-20.4	Jul-06		52	1.6	14	3.2	4000	0.0

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-41	-53.15	Jun-12		1.9	4	290		3500	0.0
PT-16	-78.75	Jun-04			88		340		0.0
EA-2	-79.32	Oct-05	2.24	854	112	1.9	9.37	32.5	0.0
PT-6	-52.11	Jul-03			133		101		0.0
EXT-7	-121.59	Sep-13	0.68	35	92		300		0.0
WMUR-05/83C	-130.54	Jun-12		3200		13		150	0.0
WMUR-05/83C	-62.04	Jun-12		3.2	12	19	3.5	3600	0.0
TP-3-93	10.85	Dec-93			150				0.0
TP-3-93	11.35	Dec-93			150				0.0
5106-23	-51.92	Feb-06	6.23	350		183		3200	0.0
WMUC-2	-5.4	Jun-04		4.4	130	9.4	38	290	0.0
5106-9	-50.42	Nov-05	30	570		500		2300	0.0
Pier25-15	-87.22	Dec-05	2.97	460		7.84		3330	0.0
WMUA-26	-12.4	Jul-06		130	110	10	130	110	0.0
WMUA-14	4.6	Jun-05			140		26		0.0
WMUA-40	-62.23	Jun-12		0.69	1.4	43	4.6	3700	0.0
PT-17	-48.96	Jun-04			130		72		0.0
5106-25	-29.52	Apr-06	24	1200		20		2200	0.0
PT-9	-53.97	Jul-03			119		114		0.0
BH-10-96	4.1	Mar-96			140				0.0
5106-24	-46.52	Feb-06	21.4	1770	4.01	40.2	3.17	1250	0.0
WMUA-33	-34.4	Aug-06		82	120	3	55	5.3	0.0
5106-23	-46.92	Feb-06	35	1630		150		1240	0.0
WMUH-2	4.3	Jun-04		9.5	130		20		0.0
WMUA-15	4.6	Jun-05			130		13		0.0
NL-6	5.6	May-05			130		6.3		0.0
WMUH-2	-5.3	Jun-04		26	130				0.0
EA-2	-64.32	Oct-05	2.77	2400	19.6	7.23	4.79	7.86	0.0
WMUA-29	-32.4	Jul-06		6		50		3300	0.0
A	-132.62	Jul-13	0.8	100	100	2.9	110	17	0.0
709-MW4-15	-6.65	Jan-94			100		130		0.0
5106-26	-27.42	Feb-06	7.4	2700		12		11	0.0
WMUA-9	9.6	Jun-04			120		20		0.0
NL-14	-30.17	Dec-05		4.76	119		23.1		0.0
5106-5	-83.42	Sep-05		68			608		0.0
WMUA-28	-3.9	Aug-06		2.2	120		7.1		0.0
WMUA-8	-12.4	Oct-06		16	5.2	16	37	2800	0.0
5106 T5-550	-37.57	Nov-95			91		140		0.0
NL-8	9.1	May-05		45	110		27		0.0
EA-2	-59.32	Oct-05	2.06	1760	35.8	7.51	4.65	4.58	0.0
NL-6	-1.4	May-05		13	110		27		0.0
WMUA-11	5.6	Jun-05			110		29		0.0
WMUA-30	-34.4	Aug-06		98		59	0.94	2800	0.0
NL-6	8.1	May-05			110		18		0.0
5106-14	-56.32	Dec-05	2.51	63.5	75.4	278	87.1		0.0
Pier25-17	-128.52	Nov-05	3.4	2200	1.4	13	3.6	280	0.0
WMUR-10	1.39	Sep-12		1.1	110		12		0.0
WMUG-10	4.93	Jul-12			110		12		0.0
709-BH-12	-7.28	Oct-12		2300		130			0.0
EA-1	-30.82	Sep-05		108	82.3	0.559	126	3.4	0.0
Pier25-18	-53.82	Dec-05	12	190		54		2600	0.0
WMUA-28	-112.4	Oct-06		7.4	80		150		0.0
PT-6	-54.11	Jul-03			96.8		65.7		0.0
5106-24	-71.52	Feb-06						2880	0.0
WMUA-16	-62.4	Jun-05	5.3	1400		43		1100	0.0
5106-5	-103.42	Sep-05		39.3	6.73		505		0.0
WMUG-05	5.9	Jun-12		0.6	100		30	0.33	0.0

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
		Single component soil threshold calculation	858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
EA-1	-60.82	Sep-05	8.73	1390	6.32	28.8	31.3	729	0.0
5106-21	-94.92	Jan-06		59.6				2720	0.0
5106-24	-91.52	Feb-06		221		40.4		2440	0.0
WMUA-21	-40.4	Jul-06	5.8	85	15	10	180	1300	0.0
5106-5	-128.42	Sep-05		39.3	16.5		438		0.0
WMUA-17	-62.4	Jun-05	1	490	36	7.9	220	27	0.0
WMUA-16	-52.4	Jun-05	5.1	1300		28		1000	0.0
89C	-22.33	Jun-12		15		1500	9.1	7.1	0.0
WMUG-11	-36.58	Jul-12		13	0.99	4.4	1	2500	0.0
WMUA-16	-12.4	Jun-05		49	3.2	5.5		2400	0.0
WMUA-18	-34.9	Jun-05		36	61		170	2.6	0.0
PT-13	-59.2	Jun-04			76		99		0.0
WMUA-11	-84.4	Aug-06		66	64		140		0.0
EA-1	-45.82	Sep-05	8.16	823	5.65	1.96	158	495	0.0
WMUA-14	-32.4	Jun-05		1100	29	15	54	87	0.0
SP-5	7.6	Jun-06			89		22		0.0
WMUA-30	-134.4	Aug-06			92		3.3		0.0
5106-13	-94.02	Nov-05	8.5	1500	6.2	24	3.5	380	0.0
PT-11	-20.96	Jun-04			25		340		0.0
PT-17	-65.46	Jun-04			89		11		0.0
Pier25-19	-116.52	Dec-05	6.81	972		20.2	6.79	1150	0.0
NL-15	-17.87	Dec-05		5.12	79.1	1.8	52.8		0.0
5106-1	-124.62	Sep-05		1450	17.7		25		0.0
WMUA-25	-51.4	Jul-06		1900		31			0.0
WMUA-29	-12.4	Jul-06		42	11	6.7	2.2	1900	0.0
NL-15	-14.87	Dec-05		5.34	79.4	10.5	25.7		0.0
WMUA-22	-22.4	Jul-06	8.8	130	14	22	320		0.0
WMUG-10	-22.77	Jul-12	1.2	220	41	0.34	150	120	0.0
WMUA-41	-50.65	Jun-12			4.8			2100	0.0
WMUA-9	3.35	Jun-04			80		21		0.0
Pier25-2	-118.27	Jul-05	6.25	1620		66.6	5.66	126	0.0
EA-1	-95.82	Sep-05		13.1	59.8	0.797	117	8.47	0.0
WMUR-03	-26.22	Jun-12		27	71	1.2	47	3.9	0.0
EA-2	-74.32	Oct-05	1.88	754	45.6	2.24	5.06	16.7	0.0
WMUG-08	-4.65	Jul-12		3.2	14	33	19	1600	0.0
WMUG-01	4.27	May-12			78		9.8	0.29	0.0
PT-14	-4.96	Jun-04			58		110		0.0
PT-17	-74.96	Jun-04			78		5.2		0.0
WMUA-39/53C	-4.78	Jun-12	3.8	1100	5.1	6.1	63	280	0.0
SS1-95	9.1	Nov-95			76		13		0.0
WMUA-11	-74.4	Aug-06		1700		14	1.9		0.0
NL-11	6.1	Jun-05			76		8.7		0.0
G	-126.12	Jul-13		26		2.1		2000	0.0
PT-11	-65.96	Jun-04			39		190		0.0
721-BH-15	5.93	May-12			75				0.0
WMUA-30	-144.4	Aug-06		2	73		8.6		0.0
PT-5	-53.28	Jul-03			38.1		183		0.0
EA-1	-70.82	Sep-05	1.45	329	22.4	5.32	67.1	571	0.0
NL-18	6.6	Aug-06			71		5.5		0.0
5106-20	-100.32	Jan-06		586		2.77		1200	0.0
WMUR-05/83C	-43.04	Jun-12		5.7	62	0.37	47	0.25	0.0
Pier25-26	-66.52	Jan-06	8.2	650		18		1000	0.0
5106-14	-46.32	Dec-05	28	1220	4.36	44.1	11.7	24.8	0.0
Pier25-26	-76.52	Jan-06	2.6	130		36		1600	0.0
PT-16	-73.25	Jun-04			35		170		0.0
Pier25-18	-123.82	Dec-05	1.4	74	5.4	5.5	140	830	0.0
WMUH-3	9.6	Jun-04			66		9.3		0.0

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THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
		Single component soil threshold calculation	858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106-23	-41.92	Feb-06	5.69	156		20.3		1550	0.0
WMUA-27	-2.4	Oct-06		5.1	54		68		0.0
5106 T5-550	-35.27	Nov-95			55		64		0.0
WMUC-2	4.2	Jun-04		5.3	52		78		0.0
Pier25-22	-59.42	Jan-06	3.4	170		13		1500	0.0
709-BH-01	-3.59	May-12			65		1.8		0.0
WMUG-14	-5.51	Sep-12	3.5	1100	1.5	3.6	4.3	300	0.0
NL-16	-24.32	May-06			64				0.0
5106-20	-75.32	Jan-06	15.3	881		30.8		530	0.0
WMUA-19	-7.4	Aug-06	17	1200		32		140	0.0
5106-10	-76.22	Nov-05	2	950	4.3	5.9	41	200	0.0
PT-12	-49.26	Jun-04			26		190		0.0
5106-9	-115.42	Nov-05		1400					0.0
WMUH-1	-8.9	Jun-04		22	62				0.0
WMUA-20	-72.4	Jul-06		71	48	13	43	49	0.0
NL-15	-21.37	Dec-05		10.5	54	7.63	34.3		0.0
40-100R	-87.38	Feb-01	7.2	1000		42		320	0.0
Pier25-12	-67.02	Feb-06		23.5	34.7		127		0.0
WMUA-26	-52.4	Jul-06		11	53		35		0.0
WMUG-06	-54.07	Jun-12	53	270	2.6	6	190	5.1	0.0
WMUA-3	1.35	Jun-04			59				0.0
WMUA-28	-1.4	Aug-06			57		3.1		0.0
NL-15	-23.87	Dec-05		84.7	43.6	52.8	31.7	6.92	0.0
709-BH-02	-3.84	May-12			56		3.9		0.0
BH-15-96	6.85	Apr-96			56		1.8		0.0
WMUG-11	5.42	Jul-12			55		4.7		0.0
SP-7	7.6	Jun-06			53		13		0.0
BH-1-96	4.3	Mar-96			44		58		0.0
5106-21	-89.92	Jan-06				7.74		1440	0.0
Pier25-30	-55.12	Jan-06		212				1180	0.0
5106-9	-110.42	Nov-05		1200					0.0
NL-3	-4.4	Jun-04			53		5.3		0.0
Pier25-3	-99.42	Aug-05						1420	0.0
G	-204.62	Jul-13		410	15	15	95	13	0.0
PT-2	-56.97	Jul-03					271		0.0
EA-1	-65.82	Sep-05	0.877	210	19.6	2.2	45	393	0.0
WMUA-38	-26.28	May-12	1.1	150	21	46	58	280	0.0
PT-17	-68.96	Jun-04			52		4		0.0
WMUA-17	-15.4	Jun-05	2.2	900	1	17		250	0.0
EA-1	-75.82	Sep-05	0.48	132	14.4	5.12	33.4	663	0.0
NL-3	4.85	Jun-04			50		9.9		0.0
EA-1	-25.82	Sep-05	0.561	443	21.4	1.4	48.5	17.7	0.0
5106-24	-51.52	Feb-06	11.4	978	2.81	20.3	4.12		0.0
SP-3	3.6	Jun-06			49.8		2.07		0.0
G-Shallow	-131.13	Aug-13		570		30	36	400	0.0
5106-24	-101.52	Feb-06		210		3.62		1060	0.0
5106-1	-119.62	Sep-05		368	23.5		48.8		0.0
WMUA-16	1.6	Jun-05			48		5.7		0.0
WMUA-33	-54.4	Aug-06		220	22	7.5	84	3.5	0.0
PT-12	-43.76	Jun-04			38		54		0.0
Pier25-22	-79.42	Jan-06	5.9	850		33		170	0.0
WMUG-06	-62.57	Jun-12	6.1	160	1.9	3.1	190	0.87	0.0
Pier25-25	-60.92	Jan-06		60.1		8.05		1140	0.0
5106-14	-81.32	Dec-05		163		118	3.42	806	0.0
NL-18	8.6	Aug-06			44		9.1		0.0
WMUR-02	-52.35	Jun-12		11	5.8	28	17	900	0.0
5106-21	-104.92	Jan-06		280		4.45		858	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
		Single component soil threshold calculation	858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106-6	-57.92	Oct-05	2.2	840		16	19	18	0.0
NL-13	-26.87	Dec-05		9.21	36.3	7.42	32		0.0
709-BH-12	-13.28	Oct-12		900				68	0.0
NL-1	5.4	Jun-04			42		4		0.0
WMUA-6	-0.15	Jun-04			42				0.0
5106-14	-86.32	Dec-05		81.3		82.4		856	0.0
WMUA-12	7.6	Jun-05			37		22		0.0
WMUA-24	-82.4	Jul-06		750	2.1	48	9.6		0.0
SP-1	7.6	Jun-06			40.6		1.35		0.0
F-Deep	-168.33	Jul-13	1.7	1.5	16		120	15	0.0
5106-21	-99.92	Jan-06		212				810	0.0
WMUA-18	-71.4	Jun-05	2	550	6.3	15	5.4	170	0.0
WMUA-38	-22.78	May-12	0.47	44	21	42	27	230	0.0
WMUA-31	-104.4	Aug-06	1.1	23	13		130		0.0
WMUA-1	3.6	Jun-04			39		3.1		0.0
EXT-9-Deep	-172.92	Jul-13		3.3	33		30		0.0
5106-10	-66.22	Nov-05	1.1	21			1.3	990	0.0
SP-4	3.6	Jun-06			37.1		4.41		0.0
WMUA-13	5.6	Jun-05			36		9.4		0.0
WMUA-13	1.6	Jun-05		4.6	18		100		0.0
F-Deep	-129.33	Jul-13		1	1.7		0.9	940	0.0
Pier25-26	-86.52	Jan-06		23				960	0.0
WMUA-8	-102.4	Oct-06			4		170		0.0
WMUA-33	-24.4	Aug-06		11	24	3.2	59	7.3	0.0
SP-8	3.6	Jul-06			35		7.15		0.0
WMUA-40	-35.23	Jun-12	1.3	11	18	6.4	71	90	0.0
WMUA-21	-73.4	Jul-06		2.1		2.7		940	0.0
WMUA-27	-82.4	Oct-06			34		9.2		0.0
NL-1	0.6	Jun-04			35		3.2		0.0
WMUA-11	3.6	Jun-05			33		8.8		0.0
WMUG-08	-26.35	Jul-12		4.7	30	0.73	20	5.7	0.0
Pier25-22	-89.42	Jan-06	3.3	670		13		72	0.0
WMUH-2	-7.9	Jun-04		17	33				0.0
WMUA-15	-12.4	Aug-06	59			410			0.0
Pier25-11	-87.2	Oct-05	3.94	535		17		205	0.0
WMUA-15	-44.4	Aug-06						880	0.0
WMUL-01	6.36	Jun-12		0.35	27		31		0.0
NL-24	-32.21	Jan-07		40	21		50		0.0
5106-14	-76.32	Dec-05	2.8	334		46.9	3.92	351	0.0
WMUL-02	1.89	Jun-12			29		15		0.0
WMUA-17	-22.4	Jun-05	2.1	310	3.7	19	5.3	300	0.0
NL-4	0.6	Jun-04		6.4	29		11		0.0
WMUC-1	4.8	Jun-04		6.1	15		81		0.0
WMUA-17	-12.4	Jun-05		370	3.5	26	3.6	220	0.0
PT-8	-47.17	Jul-03			27.7		14.9		0.0
NL-18	2.6	Aug-06			30		2.9		0.0
WMUA-34	-56.12	Jul-12	0.66	3.3		31	0.28	740	0.0
WMUG-03	-60.22	May-12		4.3	20	2.7	11	200	0.0
5106-3	-74.32	Sep-05		91	19.4		33.2		0.0
NL-3	0.6	Jun-04		15	26	12	8.8	15	0.0
EA-2	-54.32	Oct-05	0.826	367	11.4	0.85	7.38	2.21	0.0
SB-B-DEEP	-177.45	Aug-13	0.76	32	13	0.82	72	7.6	0.0
WMUA-25	5.6	Jul-06			20		42		0.0
5106-25	-19.52	Apr-06	12	450		11		140	0.0
NL-19	-7.4	Aug-06		6.4	23		20		0.0
WMUA-24	-3.4	Jul-06		310	2.4	19	48	4	0.0
WMUA-22	-63.4	Jul-06		4.5		48	2.1	620	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-18	6.1	Jun-05			26		5.6		0.0
WMUA-18	-95.4	Jun-05	2	74	8.8		75		0.0
WMUR-08	-68.17	Aug-12			0.37		0.37	700	0.0
Pier25-6	-83.62	Feb-06		81.1	3.86		96.3	10.4	0.0
5106-5	-123.42	Sep-05		19.5			132		0.0
Pier25-8	-87.42	Aug-05	3.17	489		7.7		95.9	0.0
WMUA-30	-24.4	Aug-06		7.9		36		630	0.0
EA-1	-80.82	Sep-05	0.53	76.5	10.6	1.66	25.7	190	0.0
WMUA-41	-19.65	Jun-12	0.53	18	17	7.9	16	130	0.0
WMUL-01	1.36	Jun-12			22		22		0.0
NL-22	5.6	Jul-06			19.5		33.2		0.0
WMUR-08	-114.17	Aug-12			26				0.0
721-BH-03	10.44	May-12			26				0.0
709-BH-12	-4.28	Jun-12	3.8	350	2.8	66	10	19	0.0
WMUH-2	-10.2	Jun-04		18	25				0.0
Pier25-24	-71.82	Jan-06	1.9	270		8.8		330	0.0
Pier25-30	-35.12	Jan-06		20.8		22.2		610	0.0
A	-192.12	Jul-13		12	20	0.6	17	36	0.0
WMUA-39/53C	-77.58	Jun-12		2.2	2.1	3.1	3.7	580	0.0
WMUA-5	0.6	Jun-04			25				0.0
WMUG-08	5.65	Jul-12			24		3.8	4.7	0.0
5106-25	-59.52	Apr-06		290				310	0.0
PT-2	-51.97	Jul-03			20.8		18.9		0.0
WMUR-08	-69.67	Aug-12		13	12	1.3	11	250	0.0
709-BH-03	2.37	May-12			24		1.1		0.0
709-BH-03	9.87	May-12		0.89	23		5.9		0.0
17C	6.67	Jul-12		0.47	23		5.9		0.0
WMUA-26	-33.4	Jul-06		77	15	14	24		0.0
WMUG-14	1.49	Sep-12		0.24	23		3.7		0.0
Pier25-16	-127.22	Nov-05	1.74	118		8.76		458	0.0
5106-21	-44.92	Jan-06		15.6	19.3		14.2		0.0
11-75	-15.75	Jul-12	1.4	390		13	1.3	100	0.0
WMUA-16	4.6	Jun-05			22		3		0.0
F-Deep	-140.33	Jul-13		2.2	1.2		0.51	550	0.0
WMUA-7	-64.4	Aug-06		11		61		470	0.0
Pier25-6	-138.52	Aug-05		60.3	3.19	2.1	81.4	2.23	0.0
WMUA-2	3.6	Jun-04			22				0.0
NL-16	-30.32	May-06			22				0.0
WMUA-6	-54.4	Aug-06		10		16	1.7	530	0.0
5106-3	-78.32	Sep-05		198	6.38		29.2	15.1	0.0
5106-13	-104.02	Nov-05			10		59		0.0
WMUG-10	-25.57	Jul-12	0.73	120	0.81		15	320	0.0
WMUL-02	9.89	Jun-12			19		12		0.0
WMUM-01	6.74	Jun-12			21		1.5		0.0
WMUA-31	-114.4	Aug-06		12	15		28		0.0
PT-3	-54.27	Jul-03			18		15.1		0.0
NL-13	-23.87	Dec-05			3.79		86.6		0.0
WMUA-35	-23.04	Oct-12		190	5	24	14	76	0.0
WMUR-05/83C	-31.04	Jun-12		5.7	11	0.69	48		0.0
PT-5	-48.28	Jul-03			11.9		42.3		0.0
SS1-95	5.1	Nov-95			19		6		0.0
Pier25-6	-128.52	Aug-05	2.12	372		11.3	2.98	46.1	0.0
SP-7	10.6	Jun-06			15		26		0.0
Pier25-12	-57.02	Feb-06			15		25.6		0.0
WMUA-4	1.9	Jun-04			20				0.0
WMUA-3	9.6	Jun-04			20				0.0
WMUL-02	6.89	Jun-12			18		10		0.0

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OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-21	-57.4	Jul-06		6.2	12		37	5	0.0
5106 T5-100	-18.67	Nov-95			18		8.5		0.0
WMUA-28	-102.4	Oct-06			19		3.1		0.0
WMUA-2	9.6	Jun-04			19				0.0
WMUA-26	5.6	Jul-06		2.4	16		12		0.0
WMUA-22	8.6	Jul-06		0.55	15		17		0.0
WMUA-11	-4.4	Aug-06			17		6.2		0.0
SS1-95	4.1	Nov-95			17		6		0.0
5106 T1-400	-43.72	Nov-95			18				0.0
5106-14	-111.32	Dec-05	4.65	112		21.4		289	0.0
WMUG-08	-29.35	Jul-12		3.1	8.7	1.6	9.1	190	0.0
HYD-1	-157.62	Sep-05		52	5.88		47.1		0.0
WMUM-01	9.74	Jun-12			17		1.3		0.0
5106-10	-81.22	Nov-05	1.2	220	1	3.8	26	21	0.0
WMUR-08	-33.17	Aug-12	0.34	2.4	13	0.82	19	6.9	0.0
WMUG-04/21C	-2.07	Jun-12	0.77	14	2.7	4.7	55	66	0.0
709-BH-12	-11.78	Jun-12	1.5	320	1.5	7.6	0.63	5.3	0.0
5106-20	-80.32	Jan-06	5.11	131		26.1		226	0.0
Pier25-13	-170.12	Feb-06		55			70.7		0.0
Pier25-24	-101.82	Jan-06		9.9		5.8		410	0.0
WMUA-11	-12.4	Jun-05			5.7		5.8	250	0.0
WMUA-18	-61.4	Aug-06	37					300	0.0
WMUM-02	9.86	Jun-12			16				0.0
WMUA-10	3.35	Jun-04			16				0.0
BH-7-96	1.8	Mar-96			14		10		0.0
WMUA-12	-12.4	Jun-05		6.4	11	13	3.9	72	0.0
WMUA-30	-4.4	Aug-06			15		3		0.0
WMUA-7	-84.4	Aug-06		240		16	19		0.0
47-15	0.9	Nov-95			10		27		0.0
709-MW14-15	-6.4	Jul-95					78		0.0
WMUA-19	6.6	Jun-05			14		5.2		0.0
WMUA-22	-12.4	Jul-06		86	2.1	3.7	43	2.8	0.0
WMUA-28	-132.4	Oct-06			12		14		0.0
5106-19	-75.92	Jan-06		17		40.2	28.3	152	0.0
5106-14	-96.32	Dec-05		233		25.1		62.4	0.0
WMUG-13	-27.18	Sep-12		23	2.6	14	50		0.0
WMUA-5	9.6	Jun-04			14				0.0
SP-7	3.6	Jun-06			14				0.0
721-BH-12	7.2	May-12			14				0.0
5106-10	-61.22	Nov-05		88				260	0.0
PT-18	-12.46	Jun-04			12		8.9		0.0
WMUA-14	0.6	Jun-05			8.6		26		0.0
WMUA-33	-104.4	Aug-06		21		2.1	64		0.0
Pier25-8	-107.42	Aug-05		171				153	0.0
PH02	-25.78	Sep-12		15	3.4	1	47		0.0
5106-3	-84.32	Sep-05		91.2	7.23		9.63		0.0
WMUA-32	-94.4	Aug-06		88	6.7	2.1	12		0.0
F-Deep	-120.83	Jul-13		1.9	4.3		1.7	220	0.0
WMUA-24	7.6	Jul-06			9.1		19		0.0
5106-20	-50.32	Jan-06	5.53			189			0.0
PT-9	-54.97	Jul-03			11.3		7.13		0.0
NL-11	9.1	Jun-05			12		3.3		0.0
5106-23	-16.92	Feb-06	4.99	51.5	6.4	9.35	13.6		0.0
NL-18	-1.4	Aug-06			12		2.8		0.0
WMUA-18	-2.4	Aug-06						330	0.0
WMUA-39/53C	3.92	Jun-12			11		7.5		0.0
5106-14	-91.32	Dec-05		231		14.6		23.8	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
		Single component soil threshold calculation	858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-19	1.6	Jun-05			11		5.9		0.0
WMUA-7	-34.4	Aug-06		14	7.7		19		0.0
NL-23	-30.07	Aug-06		27	1.3	16	3.9	200	0.0
SS1-95	10.1	Nov-95			11		4		0.0
WMUA-15	-32.4	Jun-05	1.9	10	3.2		27	68	0.0
WMUR-06/94C	-63.71	May-12		12	5.2	1.3	29	0.31	0.0
NL-17	-20.32	Mar-06		26	8.6	8.6	5.5		0.0
EXT-9-Deep	-183.92	Jul-13			9.6		8.5		0.0
SP-2	10.6	Jul-06			11		1		0.0
EA-2	-84.32	Oct-05		41.5	8.99		1.14	1.78	0.0
WMUL-01	9.86	Jun-12			9.4		8.7		0.0
WMUA-25	7.6	Jul-06			8.3		14		0.0
WMUH-3	4.8	Jun-04			11				0.0
NL-7	5.1	May-05			11				0.0
NL-5	4.9	Jun-04			11				0.0
NL-11	1.6	Jun-05			11				0.0
NL-1	-4.6	Jun-04			11				0.0
NL-12	9.6	Jun-05			10		5.1		0.0
WMUA-26	-2.4	Jul-06		100	2.5	32	9.8		0.0
WMUA-33	5.6	Aug-06			10		5		0.0
Pier25-15	-77.22	Nov-05		15	1.4			230	0.0
WMUA-19	-13.4	Jun-05			8.5		11		0.0
SS1-95	8.1	Nov-95			10		3		0.0
5106-26	-57.42	Feb-06	1.3	85	1.7	3.6	2.5	110	0.0
WMUA-15	-34.4	Aug-06		21	2	7.7	23	62	0.0
WMUA-23	-22.4	Jul-06		1.9	5.6	7.6	21		0.0
PT-10	-44.46	Jun-04			8.8		7		0.0
NL-18	-13.4	Aug-06		2.3	8.8		6.4		0.0
5106-10	-96.22	Nov-05		90		3.1	14	83	0.0
WMUA-32	-4.4	Aug-06			10				0.0
NL-19	6.6	Jul-06			10				0.0
WMUA-24	5.6	Jul-06			7.4		13		0.0
WMUA-29	5.6	Jul-06			9.4		2.7		0.0
Pier25-2	-98.27	Jul-05		71.3		16.4		149	0.0
EXT-7	-12.19	Aug-13		1.6	8.1	0.6	7.1	1.9	0.0
Pier25-8	-117.42	Aug-05		164		5.78		46.4	0.0
WMUA-14	-52.4	Jun-05		31	6.2		8.5	3.3	0.0
WMUG-14	-12.01	Sep-12	1.1	62	1.3	1.2	24	9.7	0.0
WMUA-11	6.6	Aug-06			8.7		3		0.0
5106-10	-51.22	Nov-05		4.6				240	0.0
WMUA-10	9.6	Jun-04			9.2				0.0
SP-8	10.6	Jul-06			9.16				0.0
SP-4	10.6	Jun-06			9.16				0.0
NL-6	10.6	May-05			9				0.0
EA-2	-49.32	Oct-05		127	2.31		4.52	0.684	0.0
HYD-1	-137.62	Sep-05		123			16.5	2.8	0.0
F-Int	-128.85	Aug-13					0.69	230	0.0
CH-3	10.6	May-06			8.8				0.0
WMUA-38	-32.28	May-12		14	1.6	35	4.1	92	0.0
5106-24	-36.52	Feb-06			2.88	14.4	24.6		0.0
WMUA-22	-3.4	Jul-06		1.8	7.9		3.2		0.0
WMUM-02	-8.14	Jun-12			7.8		4.1		0.0
WMUA-29	7.6	Jul-06			8.2		2		0.0
5106-27	-27.72	Apr-06		170				23	0.0
EA-2	-89.32	Oct-05		28.2	6.96		1.03	1.34	0.0
F-Deep	-153.33	Jul-13	1.2	0.7	1.4		35	1.1	0.0
Pier25-6	-43.12	Feb-06		4.54	3.62		23.6		0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-38	-35.28	May-12	0.36	11	3.3	1	19	21	0.0
SS1-95	6.1	Nov-95			8		2		0.0
PT-14	-24.96	Jun-04			7.4		4.6		0.0
5106-14	-106.32	Dec-05						217	0.0
709-BH-01	5.41	May-12			8		0.92		0.0
SB-B-DEEP	-157.45	Aug-13			6.5		8.2		0.0
NL-12	5.1	Jun-05			7.3		3.7		0.0
SP-4	7.6	Jun-06			7.8		1.13		0.0
PT-18	-56.96	Jun-04			8				0.0
NL-7	9.6	May-05			7		5		0.0
WMUM-02	-3.14	Jun-12			7.6		1.4		0.0
PH02	-36.78	Sep-12		130	1.4	4.1	0.62	2.4	0.0
WMUA-13	-15.4	Jun-05			6.3		6.5	3.8	0.0
Pier25-15	-67.22	Nov-05	9.1		5	23			0.0
WMUA-26	7.6	Jul-06			6.6		5.2		0.0
NL-23	-33.07	Aug-06		15	4.9	4.8	8.8		0.0
PT-17	-79.96	Jun-04			7.6				0.0
WMUA-35	-13.04	Oct-12		3.4	0.63	49	0.54	94	0.0
Pier25-32	-82.32	Apr-06	6.1	4.7	5.2	4	4.7	5.8	0.0
WMUM-02	6.86	Jun-12			7.5		0.38		0.0
EA-1	-120.82	Oct-05			6.34		6.19		0.0
WMUC-2	0.6	Jun-04			6.8		3.7		0.0
EA-2	-109.32	Oct-05		9.86	6.82		0.512	0.728	0.0
SS1-95	7.1	Nov-95			7		2		0.0
WMUA-8	-42.4	Oct-06		13	6.8				0.0
WMUA-23	4.6	Jul-06			6.6		4		0.0
WMUA-26	-22.4	Jul-06		3.3	2.5	9.5	21		0.0
Pier25-19	-66.52	Dec-05				5.84		184	0.0
5106 T1-400	-42.22	Nov-95			5.8		7.7		0.0
5106-6	-67.92	Oct-05		6	6.6		1.7		0.0
WMUA-31	-4.4	Aug-06		16	3.8	0.72	5.7	40	0.0
Pier25-32	-72.32	Apr-06	5.9	4.5	4.9	3.8	4.5	5.5	0.0
SP-1	3.6	Jun-06			7.16				0.0
709-BH-03	5.37	May-12			6.8		1.5		0.0
89C	-2.33	Jun-12		7.5	1	5.2	27		0.0
PT-18	-51.96	Jun-04			6.8				0.0
5106-6	-107.92	Oct-05			3.8		15		0.0
WMUR-10	-7.21	Sep-12	1.3	74	0.71	30	2.7	1.8	0.0
WMUA-35	-3.04	Oct-12		8.2	1.7	7.2	2	100	0.0
WMUG-13	-17.88	Sep-12		22	1.2		22	5.3	0.0
WMUA-17	4.6	Jun-05			6.5				0.0
5106-5	-88.42	Sep-05					32.8		0.0
NL-22	9.6	Jul-06			4.25		11.1		0.0
WMUA-7	9.6	Jun-04			6.4				0.0
5106-3	-128.32	Sep-05		20.6			27	4.27	0.0
WMUC-2	-9.9	Jun-04		4.2	3.3	4.5	8.1	25	0.0
BH-11-96	4.4	Mar-96			5.5		3.8		0.0
PT-11	-50.96	Jun-04			3.3		15		0.0
WMUA-6	-24.4	Aug-06		65		1.6	16		0.0
NL-7	8.1	May-05			6.1				0.0
709-BH-12	6.22	Oct-12			5.9		0.92	0.36	0.0
EA-2	-124.32	Oct-05		5.35	5.67		0.53	0.872	0.0
5106-13	-114.02	Nov-05			5.2		4.2		0.0
WMUA-7	-14.4	Aug-06		44	1.8	2.3	4.5	28	0.0
5106 T4-175	-40.87	Nov-95			3.5		12		0.0
WMUA-18	0.1	Jun-05		11	4.3		4.9		0.0
A	-187.12	Jul-13		7.5	2.7	0.3	4.8	45	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUG-14	-27.01	Sep-12		63	2.3		1.7	4.9	0.0
WMUG-14	-14.51	Sep-12		70	2		1.6	4.4	0.0
WMUC-1	-4.4	Jun-04			5.6				0.0
NL-8	-2.4	Jun-05			5.6				0.0
WMUA-41	-38.65	Jun-12	0.56	4.2	4.5	1.4	0.52	17	0.0
709-BH-02	4.66	May-12			4.9		3		0.0
721-BH-17	-19.26	Oct-12		98				27	0.0
5106-8	-51.52	Aug-05		9.3	4.39		2.94		0.0
WMUR-02	-40.35	Jun-12		2.2	4.7		2.3		0.0
WMUA-28	-44.4	Aug-06		24				110	0.0
WMUG-10	-30.47	Jul-12		23	1.2	0.62	4.4	55	0.0
EA-2	-134.32	Oct-05		4.01	4.84		0.439	0.447	0.0
WMUA-1	9.6	Jun-04			5.1				0.0
PT-18	-41.46	Jun-04			5.1				0.0
G	-171.62	Jul-13		86		3.9	2.6	12	0.0
WMUA-23	6.6	Jul-06			4.5		2.5		0.0
5106-10	-86.22	Nov-05		18				110	0.0
WMUA-26	-61.4	Jul-06		2.1	4.1		3.9		0.0
WMUA-20	-33.4	Jul-06		8.3	3.7		4.5		0.0
Pier25-25	-120.92	Jan-06		28.3		6.17		86.6	0.0
WMUA-31	-134.4	Aug-06		2.2	4.3		2.4		0.0
721-BH-01	-8.09	May-12	1.2	19	3.5		1.6	0.58	0.0
WMUG-13	-37.88	Sep-12			4		4.2	0.35	0.0
Pier25-17	-60.32	Dec-05	0.219	6.03		1.09		118	0.0
WMUG-14	-18.51	Sep-12		4.2	0.91	1.2	0.73	92	0.0
WMUA-25	-12.4	Jul-06		3.6		40	5.2	27	0.0
709-BH-12	2.22	Oct-12		0.43	4.4		1.6	0.37	0.0
WMUG-04/21C	-21.57	Jun-12		1.2	1.9	1.6	6	39	0.0
WMUM-01	1.74	Jun-12			4.6		0.49		0.0
709-BH-09	-6.58	May-12		3.7	2.6	11	1.2	25	0.0
EA-1	-8.82	Sep-05		3.15	1.41	1.6	15.1	0.64	0.0
WMUA-6	-34.4	Aug-06		12	0.94		16		0.0
5106-13	-134.02	Nov-05		27			17		0.0
5106-9	-130.42	Nov-05		84		1.9	3.2		0.0
5106-19	-65.92	Jan-06				3.23	16.1	31.1	0.0
WMUH-3	-9.7	Jun-04		16	3.8				0.0
WMUG-10	-37.87	Jul-12		0.31	0.97	1.9	2.9	72	0.0
5106-24	-41.52	Feb-06	4.22			31	9.36		0.0
WMUA-22	6.6	Jul-06			4		1.6		0.0
709-BH-06	-5.75	May-12	0.42	42	1.8	7.1	0.36	0.42	0.0
5106-7	-70.05	Aug-05		91.6					0.0
721-BH-07	-12.7	May-12			4		0.67		0.0
WMUA-23	-2.4	Jul-06		6.4		2.8	17	8.3	0.0
WMUA-8	-122.4	Oct-06			4.1				0.0
WMUM-02	-13.14	Jun-12			4		0.44		0.0
WMUA-21	-30.4	Jul-06		21	1.4	3.6	5.3	11	0.0
709-BH-01	7.41	May-12			3.8		1.1		0.0
PT-5	-54.28	Jul-03			3.13		4.26		0.0
5106-6	-82.92	Oct-05			3.7		1.3		0.0
WMUA-28	-64.4	Aug-06		7.4		34		38	0.0
89C	-34.33	Jun-12		3.9		28	10	0.3	0.0
5106-21	-109.92	Jan-06		5.27				96.1	0.0
NL-20	6.6	Jul-06			3.7		0.88		0.0
5106-5	-93.92	Sep-05					19.7		0.0
WMUG-04/21C	-82.07	Jun-12		2.4	2.7		5.2	0.68	0.0
BH-4-96	7.3	Mar-96			3.8				0.0
PT-11	-55.96	Jun-04					19		0.0

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
NL-15	-26.87	Dec-05			3.71				0.0
WMUR-05/83C	-9.74	Jun-12		8.2	1.7	0.81	2.6	27	0.0
WMUA-7	-54.4	Aug-06		4.5		8.9		76	0.0
SP-1	10.6	Jun-06			3.33		1.57		0.0
WMUG-04/21C	-72.07	Jun-12		0.82	2.3		6.4	0.79	0.0
WMUA-11	-24.4	Aug-06		1.4	2.7		4.2		0.0
5106-6	-72.92	Oct-05		1.5	3.5				0.0
WMUA-31	-154.4	Aug-06			2.4		5.7		0.0
721-BH-14	-5.87	May-12			3.4		0.55		0.0
EA-2	-94.32	Oct-05		3.01	2.96		1.96	0.636	0.0
WMUC-1	0.45	Jun-04			3.5				0.0
WMUR-07	-7.64	Aug-12		2.2	1.7	2.5	6.3	8.1	0.0
721-BH-01	-12.09	May-12	1.3	11	2.7		0.68		0.0
WMUR-01	-107.67	Jun-12		1.1	3.2		1.2		0.0
5106-23	-9.92	Feb-06			2.12		6.95		0.0
WMUA-20	-52.4	Jul-06		3.3	2		2.3	23	0.0
WMUA-33	-84.4	Aug-06		23	1.4		5.1		0.0
NL-19	8.6	Jul-06			3.4				0.0
G	-182.62	Jul-13		52		2	1.9	14	0.0
Pier25-7	-98.52	Aug-05						88.9	0.0
Pier25-26	-106.52	Jan-06		4.7				83	0.0
NL-29	-12.32	Jan-07		3.5	2.7		2.4		0.0
WMUH-3	0.45	Jun-04			3.3				0.0
5106-14	-51.32	Dec-05	2.26	56.6		5.08		3.39	0.0
Pier25-20	-57.22	Dec-05		1.8				84	0.0
NL-12	-3.4	Jun-05			1.1		11		0.0
WMUA-11	-14.4	Aug-06		5.4	1.2		3.2	31	0.0
NL-11	-8.9	Jun-05			1.3		9.8		0.0
721-BH-04	-5.53	May-12		7.2	2.3	0.4	0.48	12	0.0
WMUA-40	-44.73	Jun-12			3		0.68	1	0.0
Pier25-24	-111.82	Jan-06		26		1.9		49	0.0
WMUA-16	-72.4	Jun-05		6.8		44			0.0
Pier25-28	-24.42	Jan-06						81.4	0.0
Pier25-13	-50.12	Feb-06		4.5	2.3		2.9		0.0
NL-20	-1.4	Jul-06			2.8		1.3		0.0
WMUA-30	-164.4	Aug-06			2.5		2.8		0.0
WMUR-10	-58.11	Sep-12		1.9	2.3		3.1	0.45	0.0
WMUM-01	-13.26	Jun-12			3				0.0
WMUL-02	-8.11	Jun-12		0.61	2.9		0.28		0.0
WMUR-05/83C	-51.54	Jun-12		2.4	1.6	0.5	6.1	0.94	0.0
Pier25-9	-88.42	Oct-05					15		0.0
NL-11	-3.4	Jun-05		3.7	1.6		5.6	1.9	0.0
WMUR-05/83C	-140.54	Jun-12		0.59	2.9				0.0
F-Deep	-99.33	Jul-13			2.7		1.1		0.0
709-BH-12	-2.78	Oct-12	0.5	25	0.69	13	0.9	0.29	0.0
WMUR-02	-105.35	Jun-12		1.1	2.7		0.49	1.4	0.0
WMUR-07	-53.14	Aug-12		0.53	2	1.2	3.3	3.4	0.0
WMUA-17	-102.4	Jun-05		26	1.7				0.0
BH-3-96	4.4	Mar-96			2.4		2.4		0.0
WMUR-08	-83.67	Aug-12		2.8	2		3.3	2	0.0
709-BH-02	9.16	May-12			2.6		1.2		0.0
WMUR-05/83C	-150.54	Jun-12			2.8				0.0
HYD-2	-53.12	Aug-05			2.79				0.0
SP-8	7.6	Jul-06			2.39		1.72		0.0
WMUA-30	-14.4	Aug-06		21		1.8	1.9	34	0.0
SB-B-DEEP	-66.45	Aug-13		16	1.5	1	1.9	0.54	0.0
Pier25-6	-53.62	Feb-06		3.45			12.5		0.0

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
		Single component soil threshold calculation	858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
NL-6	-4.9	May-05			2.6				0.0
5106-27	-7.72	Apr-06					13		0.0
709-BH-12	8.72	Jun-12			2.4		0.6		0.0
WMUM-01	-8.26	Jun-12			2.5				0.0
NL-9	-2.4	Jun-05			2.5				0.0
NL-10	7.6	Jun-05			2.5				0.0
709-BH-10	3.28	May-12			2.5				0.0
WMUA-23	-8.4	Jul-06		2.5			6.2	31	0.0
PT-3	-56.27	Jul-03			1.74		3.83		0.0
WMUA-11	-94.4	Aug-06		52				3.5	0.0
11-75	-40.75	Jul-12		0.6	2		2.1	0.67	0.0
WMUR-05/83C	-12.04	Jun-12		0.55	1.9		2.7		0.0
EA-1	-125.82	Oct-05			1.74		3.58		0.0
EA-3	-99.32	Nov-05		44				12	0.0
Pier25-9	-78.42	Oct-05			2.4				0.0
5106-6	-142.92	Oct-05			2.4				0.0
721-BH-01	7.41	May-12			2.3		0.44		0.0
EA-2	-139.32	Oct-05		1.93	2.21		0.264	0.586	0.0
PT-11	-46.96	Jun-04					12		0.0
17C	-6.83	Jul-12		0.83	1.2	0.75	5.4		0.0
WMUA-20	-21.4	Jul-06		14			6.8	9.7	0.0
NL-9	6.1	Jun-05			2.3				0.0
WMUA-24	-72.4	Jul-06		18		2.7	6.7		0.0
WMUL-01	-3.64	Jun-12		12	1.6		0.61	0.35	0.0
Pier25-28	-44.42	Jan-06		23.7				31.8	0.0
709-BH-12	2.97	Jun-12			1.9		1.8		0.0
Pier25-25	-130.92	Jan-06		31.3				22.1	0.0
WMUA-32	-104.4	Aug-06		14	1.1		2.5		0.0
BH-5-96	7.2	Mar-96			2.2				0.0
WMUA-23	-72.4	Jul-06		43		3.9			0.0
BH-12-96	4.4	Apr-96			1.4		4		0.0
WMUL-02	-3.11	Jun-12		2.3	1.9	0.33	0.71		0.0
PT-5	-51.28	Jul-03			1.76		2.05		0.0
721-BH-12	-5.05	May-12			2		0.77		0.0
EA-2	-99.32	Oct-05		5.72	1.79		0.306	0.76	0.0
WMUR-06/94C	-160.41	May-12	0.42	0.44	1		5.4		0.0
WMUG-14	-30.51	Sep-12	0.46	15	0.99	0.48	1.8		0.0
WMUA-22	-52.4	Jul-06					1.1	50	0.0
WMUA-20	-42.4	Jul-06		2.8	1.6		1.8		0.0
721-BH-02	-5.69	May-12			2			2	0.0
NL-19	-1.4	Jul-06			1.7		1.8		0.0
5106-14	-101.32	Dec-05						54.1	0.0
PT-5	-52.28	Jul-03			1.8		1.25		0.0
WMUA-8	-72.4	Oct-06		45					0.0
721-BH-13	-12.19	May-12			1.9		0.56		0.0
709-BH-10	-5.22	May-12	0.43	10	0.49	11	0.69	4.5	0.0
721-BH-04	-12.53	May-12			2				0.0
721-BH-04	6.97	May-12			2				0.0
5106-6	-77.92	Oct-05			2				0.0
Pier25-6	-63.62	Feb-06					10.1		0.0
5106 T1-400	-36.62	Nov-95					10		0.0
WMUG-04/21C	-60.07	Jun-12		0.59	1.5		1.3	4.4	0.0
89C	-27.33	Jun-12		1.3		5.5	7.4	1.6	0.0
BH-13-96	9.9	Apr-96			1		4.7		0.0
EA-1	-130.82	Oct-05			1.43		2.43		0.0
WMUA-35	6.96	Oct-12			1.9				0.0
Pier25-17	-138.52	Nov-05		2.2	1.8				0.0

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KUEPER-DAVIES CALCULATION 4
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OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
EA-1	-135.82	Oct-05			1.55		1.78		0.0
721-BH-15	7.18	May-12			1.8		0.37		0.0
PT-10	-26.46	Jun-04					9.4		0.0
5106 T1-250	-36.82	Nov-95					9.4		0.0
721-BH-07	7.3	May-12			1.8				0.0
721-BH-15	-12.07	May-12			1.7			2.5	0.0
5106 T3-75	-43.12	Nov-95			1.3		2.5		0.0
17C	-3.53	Jul-12		1.6	1.3	1.4	1.5	0.89	0.0
NL-22	-7.4	Jul-06			1.31		2.39		0.0
WMUR-04	-57.14	Jun-12		2.2	0.82		3.4	4.6	0.0
HYD-1	-167.62	Sep-05		10.8			6.37		0.0
WMUG-04/21C	-31.07	Jun-12		2.3	0.7	1.8	4	0.81	0.0
5106-7	-65.05	Aug-05		38					0.0
WMUA-31	-144.4	Aug-06			1.4		1.6		0.0
Pier25-19	-56.52	Dec-05			1.71				0.0
NL-8	-7.4	Jun-05			1.7				0.0
CH-3	3.6	May-06			1.7				0.0
WMUA-7	-24.4	Aug-06		5			6.5	4.8	0.0
WMUR-10	-38.61	Sep-12		0.9	1.2		2.1	0.58	0.0
5106-7	-55.05	Aug-05		36.1					0.0
NL-6	-12.4	May-05			1.6				0.0
721-BH-15	-6.57	May-12			1.6				0.0
709-BH-07	6.165	May-12			1.6				0.0
11-75	-46.75	Jul-12		35					0.0
5106-10	-46.22	Nov-05		11			2.4	16	0.0
5106 T1-50	-39.02	Nov-95					7.9		0.0
WMUG-04/21C	-42.07	Jun-12		1.7	1.1		1.8	0.4	0.0
EXT-9-Deep	-163.92	Jul-13		0.31	1.2		1.6	0.39	0.0
WMUG-14	-37.51	Sep-12		4.3	1.2		0.61		0.0
WMUA-37	-31.22	May-12	0.69	13	0.6	1.9		3	0.0
Pier25-15	-87.22	Nov-05			1.5				0.0
CH-4	3.6	May-06			1.5				0.0
721-BH-07	-5.7	May-12			1.5				0.0
5106-6	-92.92	Oct-05			1.5				0.0
WMUR-06/94C	-73.71	May-12		1.2	1.3	0.28	0.57		0.0
WMUG-08	-97.85	Jul-12		5.4			2.2	21	0.0
WMUL-02	-13.11	Jun-12		31				1.3	0.0
Pier25-8	-127.42	Aug-05		32					0.0
5106-11	-72.32	Oct-05		32					0.0
EA-3	-119.32	Nov-05			1.2		1.1		0.0
NL-10	5.1	Jun-05			1.4				0.0
WMUR-07	-18.64	Aug-12		0.51	0.87	1.2	1.8	1.8	0.0
NL-24	-37.21	Jan-07		12			4.3		0.0
721-BH-16	-12.08	May-12			1.3		0.4		0.0
WMUA-31	-164.4	Aug-06		4	0.82		1.8		0.0
5106-30	-10.4	Apr-06					6.9		0.0
WMUA-7	-104.4	Aug-06		1.8	1		1.3		0.0
F-Shallow-Old	-83.8	Aug-13			1.2		0.63		0.0
WMUR-06/94C	-153.01	May-12			0.95		1.9		0.0
WMUG-04/21C	-51.07	Jun-12			1.3			0.36	0.0
WMUR-06/94C	-53.71	May-12	0.35	4.1	0.84	0.72	0.76	1	0.0
Pier25-15	-107.22	Dec-05			1.3				0.0
721-BH-02	7.81	May-12			1.3				0.0
SB-B-DEEP	-75.95	Aug-13		3.3	0.8		1.6	0.48	0.0
A	-152.12	Jul-13			1.1		0.87		0.0
WMUA-31	5.6	Aug-06		1.5	0.93		1.2		0.0
11-75	-35.75	Jul-12		0.55	1.1		0.54		0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
709-BH-11	-11.92	Jun-12		0.45	1.1		0.53		0.0
NL-16	-27.32	May-06		27					0.0
EA-2	-119.32	Oct-05		1.32	1.11		0.235		0.0
721-BH-13	-5.19	May-12		0.34	1.2				0.0
WMUA-6	-44.4	Aug-06		15			2.7		0.0
NL-9	-8.9	Jun-05			1.2				0.0
EA-3	-114.32	Nov-05			1.2				0.0
721-BH-16	-6.58	May-12			1.2				0.0
721-BH-02	-12.19	May-12			1.2				0.0
PT-11	-43.96	Jun-04					6.1		0.0
WMUA-24	-22.4	Jul-06		2.1		2.4	4.8		0.0
WMUA-37	-36.72	May-12			0.62			15	0.0
WMUR-06/94C	-3.71	May-12		3.4	0.73	2.2	0.73		0.0
EA-2	-129.32	Oct-05		0.702	1.08		0.224		0.0
SB-B-DEEP	-55.95	Aug-13		0.4	0.94		1		0.0
721-BH-16	10.67	May-12			1.1		0.24		0.0
WMUG-08	-144.35	Jul-12		0.76	0.83		1.3	0.58	0.0
WMUA-33	-4.4	Aug-06					5.8		0.0
Pier25-6	-73.62	Feb-06					5.79		0.0
5106-19	-85.92	Jan-06						29.8	0.0
WMUH-3	-4.4	Jun-04					5.7		0.0
WMUA-25	-23.4	Jul-06		2.1		11	1.6		0.0
WMUR-06/94C	-13.71	May-12		3.1	0.87		0.46		0.0
WMUL-01	-8.64	Jun-12			1.1				0.0
CH-1	3.6	Jun-06			1.1				0.0
721-BH-18	-3.87	Jun-12			1.1				0.0
721-BH-11	7.54	May-12			1.1				0.0
709-MW21	-11.76	Jun-12			1.1				0.0
SB-B-DEEP	-45.95	Aug-13			0.84		1.3		0.0
WMUA-35	-63.04	Oct-12			0.78			7.6	0.0
WMUR-06/94C	6.29	May-12			0.95		0.51		0.0
5106-9	-125.42	Nov-05		2.3			4.8		0.0
WMUR-07	-43.14	Aug-12		0.9	0.41		2.6	2.1	0.0
5106-24	-21.52	Feb-06				6.87	3.02		0.0
WMUA-23	-32.4	Jul-06		1.4		2.7	4		0.0
WMUL-01	-12.64	Jun-12			1			0.43	0.0
709-BH-08	-5.32	May-12			1			0.33	0.0
NL-8	-10.9	Jun-05			1				0.0
721-BH-18	-11.37	Jun-12			1				0.0
G-Int	-160.11	Aug-13			0.88		0.57		0.0
5106 T1-175	-37.02	Nov-95					5		0.0
5106-24	-96.52	Feb-06		2.69				22.5	0.0
WMUG-13	1.62	Sep-12			0.85		0.55	0.37	0.0
NL-9	10.1	Jun-05			0.97				0.0
5106-27	-57.72	Apr-06		14				8.9	0.0
G	-192.62	Jul-13		11		0.53	2	1.2	0.0
Pier25-13	-150.12	Feb-06		4.4			3.9		0.0
WMUG-04/21C	-132.07	Jun-12		0.39	0.71		0.98	0.96	0.0
709-MW21	-2.76	Jun-12			0.94				0.0
Pier25-6	-118.52	Aug-05		20.6					0.0
Pier25-25	-50.92	Jan-06						24.4	0.0
5106-5	-98.42	Sep-05					4.66		0.0
F-Deep	-112.83	Jul-13			0.82		0.43		0.0
721-BH-17	-3.26	Oct-12			0.9				0.0
721-BH-18	3.63	Jun-12			0.89				0.0
Pier25-7	-68.52	Aug-05					4.45		0.0
WMUR-07	-28.14	Aug-12		0.18	0.47		1.8	0.98	0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
		Single component soil threshold calculation	858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
721-BH-05	8.35	May-12			0.86				0.0
721-BH-17	1.24	Oct-12			0.85				0.0
709-BH-09	-12.58	May-12		0.28	0.55	0.55	0.47	4.1	0.0
WMUR-06/94C	-23.71	May-12			0.82				0.0
PT-10	-29.96	Jun-04					4.1		0.0
709-MW21	2.24	Jun-12			0.8				0.0
5106-1	-144.62	Sep-05					4.03		0.0
Pier25-10	-128.49	Oct-05		15				2.9	0.0
PT-10	-34.46	Jun-04					4		0.0
WMUM-01	-3.26	Jun-12			0.77				0.0
721-GP5	-6.4	Jun-04		17					0.0
709-BH-05	-12.96	May-12		15		1.1		0.4	0.0
WMUA-28	-54.4	Aug-06		8.5				10	0.0
NL-10	-2.4	Jun-05			0.76				0.0
SP-2	7.6	Jul-06			0.75				0.0
Pier25-30	-45.12	Jan-06						19.7	0.0
EA-2	-114.32	Oct-05		0.634	0.669		0.166	0.393	0.0
EA-3	0.68	Oct-05					3.8		0.0
5106-13	-129.02	Nov-05					3.8		0.0
PT-5	-47.28	Jul-03					3.78		0.0
709-BH-08	6.93	May-12			0.73				0.0
WMUR-06/94C	-33.71	May-12		0.2	0.63		0.46		0.0
5106-19	-45.92	Jan-06		5.92		7.17			0.0
721-BH-08	8.31	May-12			0.72				0.0
WMUR-06/94C	-43.71	May-12	1	7.8		0.79	0.8	0.88	0.0
WMUR-10	-28.11	Sep-12		0.56	0.53		0.71	0.52	0.0
709-BH-11	9.33	Jun-12			0.71				0.0
PT-10	-38.96	Jun-04					3.6		0.0
721-BH-12	-12.05	May-12			0.7				0.0
709-BH-04	9.01	May-12			0.68				0.0
WMUR-10	-47.61	Sep-12		1.9	0.38		1	0.42	0.0
WMUA-39/53C	-135.88	Jun-12		0.46	0.53		0.64		0.0
709-BH-01	-11.59	May-12			0.58		0.45		0.0
WMUA-21	-102.4	Jul-06					3.4		0.0
5106 T4-175	-39.62	Nov-95					3.4		0.0
709-BH-08	-12.32	May-12			0.57		0.37		0.0
721-BH-14	8.13	May-12			0.63				0.0
Pier25-13	-160.12	Feb-06		1.6			2.8		0.0
SB-B-DEEP	-187.45	Aug-13			0.52		0.5		0.0
5106 T1-550	-37.72	Nov-95					3.1		0.0
709-BH-05	-6.96	May-12		8.7		0.72		4.4	0.0
CH-3	7.6	May-06			0.6				0.0
709-BH-06	0.25	May-12			0.42		0.89		0.0
721-BH-11	3.54	May-12			0.59				0.0
WMUG-08	-159.35	Jul-12		0.37	0.47		0.44	0.28	0.0
5106-2	-155.92	Jan-06		1.6			2.6		0.0
709-BH-02	-11.84	May-12		1.2		1.5	2	0.86	0.0
WMUG-08	-116.85	Jul-12		0.29	0.44		0.52	0.21	0.0
5106-20	-135.32	Jan-06		4.96				8.96	0.0
Pier25-17	-50.92	Dec-05		0.568	0.485		0.262		0.0
G	-211.12	Jul-13		7.1			0.63	2.3	0.0
Pier25-7	-78.52	Aug-05					2.67		0.0
721-BH-17	-14.06	Oct-12			0.51				0.0
709-BH-10	-12.22	May-12			0.45			1.4	0.0
Pier25-16	-57.22	Dec-05		0.0674	0.452		0.233		0.0
WMUA-7	-44.4	Aug-06		11					0.0
Pier25-18	-43.82	Dec-05		11					0.0

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KUEPER-DAVIES CALCULATION 4
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	
			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
									Threshold Chemical Concentration in Soil
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
NL-29	-17.32	Jan-07					2.5		0.0
5106-24	-106.52	Feb-06		2.23				10.2	0.0
WMUR-10	-19.11	Sep-12		0.32	0.41		0.25	0.26	0.0
EA-2	-104.32	Oct-05		9.62				1.06	0.0
WMUA-8	-82.4	Oct-06		4.4			1.4		0.0
WMUR-07	-36.14	Aug-12		0.32	0.29		0.55	1.5	0.0
EA-3	-24.32	Oct-05		2				10	0.0
WMUA-24	-12.4	Jul-06					1.2	6	0.0
709-BH-03	-11.63	May-12			0.35	0.52	0.4		0.0
EA-3	-104.32	Nov-05		10					0.0
721-BH-09	-1.42	Jun-12			0.45				0.0
709-BH-10	6.78	May-12			0.38		0.31		0.0
709-BH-06	-12.75	May-12		9.7					0.0
Pier25-16	-49.82	Dec-05		0.0789	0.391		0.188		0.0
709-BH-04	-12.49	May-12			0.43				0.0
5106-11	-142.32	Oct-05		9.08					0.0
Pier25-10	-148.49	Oct-05		9					0.0
WMUA-28	-94.4	Aug-06		1.5			1.7		0.0
5106-9	-45.42	Oct-05		8.8					0.0
NL-22	0.6	Jul-06					2.01		0.0
5106 T4-175	-40.07	Nov-95					2		0.0
WMUA-29	-102.4	Jul-06						9.9	0.0
H-01	-18.59	Jun-13		3.1				5.5	0.0
NL-24	-42.21	Jan-07		7.7					0.0
5106-10	-91.22	Nov-05		7.7					0.0
WMUA-23	-62.4	Jul-06					1.7		0.0
NL-21	-1.4	Jul-06					1.7		0.0
5106-10	-56.22	Nov-05				2.2	0.92		0.0
5106-20	-120.32	Jan-06		3.82				3.91	0.0
721-BH-14	-12.87	May-12			0.32				0.0
721-BH-14	3.13	May-12			0.32				0.0
EA-3	-29.32	Oct-05		1.6				6.4	0.0
NL-28	-16.22	Jan-07					1.6		0.0
Pier25-20	-97.22	Dec-05		6.9					0.0
WMUA-32	-124.4	Aug-06		2.1			1		0.0
WMUA-28	-84.4	Aug-06		6.4					0.0
NL-8	1.1	May-05		6.4					0.0
5106-20	-110.32	Jan-06						7.6	0.0
5106-26	-17.42	Feb-06		5.8					0.0
5106-20	-45.32	Jan-06				4.08			0.0
5106-25	-89.52	Apr-06						6.9	0.0
G	-91.12	Jul-13			0.24				0.0
721-MW11	-1.06	Jul-12			0.24				0.0
WMUA-29	-72.4	Jul-06						6.3	0.0
NL-25	-45.32	Jan-07					1.2		0.0
WMUA-32	-154.4	Aug-06		1.4			0.87		0.0
NL-24	-47.21	Jan-07		5.1					0.0
5106-27	-67.72	Apr-06		5.1					0.0
Pier25-24	-121.82	Jan-06		2.3				3.2	0.0
WMUA-7	-114.4	Aug-06					1.1		0.0
EXT-9-Deep	-63.42	Jul-13		2.7		1.4			0.0
5106-3	-133.32	Sep-05		4.63					0.0
NL-12	-12.4	Jun-05		4.6					0.0
5106-24	-26.52	Feb-06				3.07			0.0
5106 T2-100	-40.32	Nov-95					1		0.0
NL-5	-4.8	Jun-04		4.3					0.0
WMUA-11	-54.4	Aug-06		2.1				2.4	0.0

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KUEPER-DAVIES CALCULATION 4
 THRESHOLD CHEMICAL CONCENTRATION IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
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			1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Pier25-7	-178.52	Aug-05		4.1					0.0
H-01	-86.59	Jun-13		0.67		1.6		1.3	0.0
WMUA-23	-52.4	Jul-06						4.8	0.0
NL-24	-52.21	Jan-07		3.9					0.0
NL-14	-33.17	Dec-05		3.87					0.0
Pier25-30	-85.12	Jan-06		3.57					0.0
NL-11	-12.4	Jun-05		3.5					0.0
5106-9	-135.42	Nov-05		3.5					0.0
WMUA-34	-59.62	Jul-12		1.3				2.6	0.0
5106-8	-46.52	Aug-05		3.47					0.0
WMUA-29	-92.4	Jul-06						4.1	0.0
EA-3	-9.32	Oct-05		3.3					0.0
Pier25-20	-107.22	Dec-05		3					0.0
WMUA-11	-34.4	Aug-06		2.9					0.0
WMUA-12	-14.4	Jun-05						3.3	0.0
NL-14	-36.17	Dec-05		2.67					0.0
NL-23	-39.07	Aug-06		2.4					0.0
709-BH-07	-12.96	May-12					0.53		0.0
WMUG-08	-127.35	Jul-12		0.34			0.34	0.49	0.0
WMUA-20	-82.4	Jul-06		2.2					0.0
5106-13	-49.02	Nov-05		2.2					0.0
Pier25-9	-108.42	Oct-05		2.1					0.0
WMUM-02	1.86	Jun-12		0.59			0.34		0.0
WMUA-8	-32.4	Oct-06		1.7					0.0
EA-3	-94.32	Oct-05		1.7					0.0
5106-6	-102.92	Oct-05		1.7					0.0
17C	-13.83	Jul-12		0.34			0.31		0.0
Pier25-10	-138.49	Oct-05		1.6					0.0
89C	-70.83	Jun-12		1.6					0.0
709-BH-07	-4.96	May-12				1			0.0
Pier25-24	-131.82	Jan-06		1.4					0.0
NL-22	-11.4	Jul-06		1.32					0.0
Pier25-24	-141.82	Jan-06		1.2					0.0
Pier25-24	-151.82	Jan-06		1.2					0.0
709-BH-11	-2.92	Jun-12					0.21		0.0
EXT-9-Deep	-22.42	Jul-13						0.87	0.0
89C	-42.83	Jun-12		0.62					0.0
EXT-9-Deep	-76.92	Jul-13		0.48					0.0
EA-1	-125.82	Oct-05						0.515	0.0
SB-B-DEEP	-9.45	Aug-13						0.48	0.0
Pier25-16	-44.82	Dec-05		0.259				0.163	0.0
WW-B4	-83.12	May-06							0.0
WW-B4	-88.12	May-06							0.0
WW-B4	-93.12	May-06							0.0
WMUR-09	-103.62	Sep-12							0.0
WMUR-09	-112.62	Sep-12							0.0
WMUG-08	-155.35	Jul-12							0.0
WMUG-08	-136.35	Jul-12							0.0
WMUG-08	-107.35	Jul-12							0.0
WMUG-08	-129.35	Jul-12							0.0
WMUG-04/21C	-161.07	Jun-12							0.0
WMUG-04/21C	-112.07	Jun-12							0.0
WMUG-04/21C	-152.07	Jun-12							0.0
WMUG-04/21C	-142.07	Jun-12							0.0
WMUG-04/21C	-102.07	Jun-12							0.0
WMUG-04/21C	-122.07	Jun-12							0.0
WMUG-04/21C	-95.57	Jun-12							0.0

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KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUG-04/21C	-92.07	Jun-12							0.0
WMUC-1	-9.7	Jun-04							0.0
WMUA-8	-132.4	Oct-06							0.0
WMUA-8	-112.4	Oct-06							0.0
WMUA-7	-124.4	Aug-06							0.0
WMUA-7	-134.4	Aug-06							0.0
WMUA-7	-144.4	Aug-06							0.0
WMUA-39/53C	-147.58	Jun-12							0.0
WMUA-39/53C	-149.58	Jun-12							0.0
WMUA-39/53C	-166.08	Jun-12							0.0
WMUA-33	-124.4	Aug-06							0.0
WMUA-33	-114.4	Aug-06							0.0
WMUA-33	-134.4	Aug-06							0.0
WMUA-33	-154.4	Aug-06							0.0
WMUA-32	-134.4	Aug-06							0.0
WMUA-32	-144.4	Aug-06							0.0
WMUA-32	-164.4	Aug-06							0.0
WMUA-32	-114.4	Aug-06							0.0
WMUA-30	-154.4	Aug-06							0.0
WMUA-29	-82.4	Jul-06							0.0
WMUA-28	-82.4	Oct-06							0.0
WMUA-28	-72.4	Oct-06							0.0
WMUA-28	-122.4	Oct-06							0.0
WMUA-28	-92.4	Oct-06							0.0
WMUA-28	-142.4	Oct-06							0.0
WMUA-28	-74.4	Aug-06							0.0
WMUA-27	-62.4	Oct-06							0.0
WMUA-27	-102.4	Oct-06							0.0
WMUA-27	-72.4	Oct-06							0.0
WMUA-27	-122.4	Oct-06							0.0
WMUA-27	-112.4	Oct-06							0.0
WMUA-27	-142.4	Oct-06							0.0
WMUA-26	-82.4	Jul-06							0.0
WMUA-26	-72.4	Jul-06							0.0
WMUA-26	-92.4	Jul-06							0.0
WMUA-25	-81.4	Jul-06							0.0
WMUA-25	-102.4	Jul-06							0.0
WMUA-25	-32.4	Jul-06							0.0
WMUA-25	-62.4	Jul-06							0.0
WMUA-25	-123.4	Jul-06							0.0
WMUA-25	-42.4	Jul-06							0.0
WMUA-25	-132.4	Jul-06							0.0
WMUA-25	-69.4	Jul-06							0.0
WMUA-25	-112.4	Jul-06							0.0
WMUA-25	-93.4	Jul-06							0.0
WMUA-24	-62.4	Jul-06							0.0
WMUA-24	-52.4	Jul-06							0.0
WMUA-24	-132.4	Jul-06							0.0
WMUA-24	-102.4	Jul-06							0.0
WMUA-24	-92.4	Jul-06							0.0
WMUA-24	-112.4	Jul-06							0.0
WMUA-24	-122.4	Jul-06							0.0
WMUA-24	-41.4	Jul-06							0.0
WMUA-24	-32.4	Jul-06							0.0
WMUA-23	-112.4	Jul-06							0.0
WMUA-23	-103.4	Jul-06							0.0
WMUA-23	-78.4	Jul-06							0.0

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 OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
WMUA-23	-12.4	Jul-06							0.0
WMUA-23	-89.4	Jul-06							0.0
WMUA-23	-132.4	Jul-06							0.0
WMUA-23	-122.4	Jul-06							0.0
WMUA-23	-42.4	Jul-06							0.0
WMUA-22	-92.4	Jul-06							0.0
WMUA-22	-111.4	Jul-06							0.0
WMUA-22	-121.4	Jul-06							0.0
WMUA-21	-50.4	Jul-06							0.0
WMUA-21	-112.4	Jul-06							0.0
WMUA-21	-132.4	Jul-06							0.0
WMUA-21	-122.4	Jul-06							0.0
WMUA-16	-92.4	Jun-05							0.0
WMUA-16	-112.4	Jun-05							0.0
WMUA-16	-82.4	Jun-05							0.0
WMUA-15	-114.4	Aug-06							0.0
WMUA-15	-124.4	Aug-06							0.0
WMUA-15	-84.4	Aug-06							0.0
WMUA-15	-74.4	Aug-06							0.0
WMUA-15	-104.4	Aug-06							0.0
WMUA-15	-94.4	Aug-06							0.0
WMUA-15	-64.4	Aug-06							0.0
WMUA-15	-54.4	Aug-06							0.0
WMUA-11	-44.4	Aug-06							0.0
WMUA-11	-104.4	Aug-06							0.0
WMUA-11	-144.4	Aug-06							0.0
WMUA-11	-134.4	Aug-06							0.0
TP-4-93	6.35	Dec-93							0.0
TP-2-93	5.85	Dec-93							0.0
SS1-95	3.1	Nov-95							0.0
SB-B-DEEP	-167.45	Aug-13							0.0
SB-B-DEEP	-32.95	Aug-13							0.0
SB-B-DEEP	-24.25	Aug-13							0.0
PT-7	-59.6	Jul-03							0.0
PT-6	-53.11	Jul-03							0.0
PT-6	-56.11	Jul-03							0.0
PT-3	-57.27	Jul-03							0.0
PT-3	-55.27	Jul-03							0.0
PT-18	-26.96	Jun-04							0.0
PT-18	-31.96	Jun-04							0.0
PT-18	-45.96	Jun-04							0.0
PT-18	-21.96	Jun-04							0.0
PT-18	-16.96	Jun-04							0.0
PT-18	-36.96	Jun-04							0.0
PT-16	-93.75	Jun-04							0.0
PT-16	-88.25	Jun-04							0.0
PT-16	-83.25	Jun-04							0.0
PT-11	-31.96	Jun-04							0.0
PT-11	-25.96	Jun-04							0.0
PT-11	-35.96	Jun-04							0.0
PT-10	-60.46	Jun-04							0.0
PT-10	-63.96	Jun-04							0.0
PT-10	-48.96	Jun-04							0.0
PT-10	-55.46	Jun-04							0.0
Pier25-9	-128.42	Oct-05							0.0
Pier25-9	-118.42	Oct-05							0.0
Pier25-9	-98.42	Oct-05							0.0

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OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Pier25-8	-157.42	Aug-05							0.0
Pier25-8	-147.42	Aug-05							0.0
Pier25-8	-167.42	Aug-05							0.0
Pier25-8	-77.42	Aug-05							0.0
Pier25-8	-137.42	Aug-05							0.0
Pier25-8	-67.42	Aug-05							0.0
Pier25-8	-57.42	Aug-05							0.0
Pier25-8	-47.42	Aug-05							0.0
Pier25-7	-168.52	Aug-05							0.0
Pier25-7	-148.52	Aug-05							0.0
Pier25-7	-88.52	Aug-05							0.0
Pier25-7	-158.52	Aug-05							0.0
Pier25-7	-138.52	Aug-05							0.0
Pier25-7	-128.52	Aug-05							0.0
Pier25-7	-118.52	Aug-05							0.0
Pier25-7	-108.52	Aug-05							0.0
Pier25-6	-148.52	Aug-05							0.0
Pier25-6	-158.52	Aug-05							0.0
Pier25-6	-88.52	Aug-05							0.0
Pier25-5	-109.42	Aug-05							0.0
Pier25-5	-115.42	Aug-05							0.0
Pier25-5	-80.92	Aug-05							0.0
Pier25-5	-99.42	Aug-05							0.0
Pier25-5	-89.42	Aug-05							0.0
Pier25-4	-119.42	Aug-05							0.0
Pier25-4	-79.42	Aug-05							0.0
Pier25-4	-99.42	Aug-05							0.0
Pier25-4	-89.42	Aug-05							0.0
Pier25-4	-109.42	Aug-05							0.0
Pier25-32	-48.32	Apr-06							0.0
Pier25-32	-60.32	Apr-06							0.0
Pier25-32	-36.32	Apr-06							0.0
Pier25-32	-1.32	Apr-06							0.0
Pier25-32	7.68	Apr-06							0.0
Pier25-32	-12.32	Apr-06							0.0
Pier25-32	-24.32	Apr-06							0.0
Pier25-30	-105.12	Jan-06							0.0
Pier25-30	-15.12	Jan-06							0.0
Pier25-30	-25.12	Jan-06							0.0
Pier25-3	-79.42	Aug-05							0.0
Pier25-3	-89.42	Aug-05							0.0
Pier25-29	-105.92	Feb-06							0.0
Pier25-29	-95.92	Feb-06							0.0
Pier25-29	-85.92	Feb-06							0.0
Pier25-29	-75.92	Feb-06							0.0
Pier25-29	-25.92	Feb-06							0.0
Pier25-29	-35.92	Feb-06							0.0
Pier25-29	-55.92	Feb-06							0.0
Pier25-29	-15.92	Feb-06							0.0
Pier25-29	-65.92	Feb-06							0.0
Pier25-29	-45.92	Feb-06							0.0
Pier25-29	-13.92	Feb-06							0.0
Pier25-28	-64.42	Jan-06							0.0
Pier25-28	-74.42	Jan-06							0.0
Pier25-28	-14.42	Jan-06							0.0
Pier25-28	-54.42	Jan-06							0.0
Pier25-26	-96.52	Jan-06							0.0

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OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Pier25-26	-26.52	Jan-06							0.0
Pier25-26	-16.52	Jan-06							0.0
Pier25-26	-46.52	Jan-06							0.0
Pier25-26	-56.52	Jan-06							0.0
Pier25-26	-36.52	Jan-06							0.0
Pier25-25	-40.92	Jan-06							0.0
Pier25-24	-51.82	Jan-06							0.0
Pier25-24	-41.82	Jan-06							0.0
Pier25-24	-61.82	Jan-06							0.0
Pier25-22	-99.42	Jan-06							0.0
Pier25-22	-39.42	Jan-06							0.0
Pier25-22	-19.82	Jan-06							0.0
Pier25-22	-29.42	Jan-06							0.0
Pier25-22	-49.42	Jan-06							0.0
Pier25-21	-99.32	Jan-06							0.0
Pier25-21	-59.32	Jan-06							0.0
Pier25-21	-49.32	Jan-06							0.0
Pier25-21	-69.32	Jan-06							0.0
Pier25-21	-89.32	Jan-06							0.0
Pier25-21	-79.32	Jan-06							0.0
Pier25-21	-39.32	Jan-06							0.0
Pier25-20	-137.22	Dec-05							0.0
Pier25-20	-127.22	Dec-05							0.0
Pier25-20	-117.22	Dec-05							0.0
Pier25-2	-168.52	Aug-05							0.0
Pier25-2	-148.52	Aug-05							0.0
Pier25-2	-158.52	Aug-05							0.0
Pier25-2	-178.52	Aug-05							0.0
Pier25-2	-138.27	Jul-05							0.0
Pier25-2	-88.27	Jul-05							0.0
Pier25-2	-58.27	Jul-05							0.0
Pier25-2	-78.27	Jul-05							0.0
Pier25-2	-68.27	Jul-05							0.0
Pier25-2	-48.27	Jul-05							0.0
Pier25-19	-146.52	Dec-05							0.0
Pier25-19	-136.52	Dec-05							0.0
Pier25-18	-153.82	Dec-05							0.0
Pier25-18	-143.82	Dec-05							0.0
Pier25-17	-148.52	Nov-05							0.0
Pier25-16	-147.22	Nov-05							0.0
Pier25-16	-137.22	Nov-05							0.0
Pier25-15	-77.22	Dec-05							0.0
Pier25-15	-67.22	Dec-05							0.0
Pier25-15	-97.22	Nov-05							0.0
Pier25-14	-107.22	Nov-05							0.0
Pier25-14	-97.22	Nov-05							0.0
Pier25-14	-67.22	Nov-05							0.0
Pier25-14	-87.22	Nov-05							0.0
Pier25-14	-77.22	Nov-05							0.0
Pier25-12	-47.02	Feb-06							0.0
Pier25-11	-137.2	Oct-05							0.0
Pier25-11	-127.2	Oct-05							0.0
Pier25-11	-107.2	Oct-05							0.0
Pier25-11	-117.2	Oct-05							0.0
Pier25-11	-67.2	Oct-05							0.0
Pier25-11	-97.2	Oct-05							0.0
Pier25-10	-158.49	Oct-05							0.0

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
Pier25-1	-119.17	Jul-05							0.0
Pier25-1	-129.17	Jul-05							0.0
Pier25-1	-99.17	Jul-05							0.0
Pier25-1	-109.17	Jul-05							0.0
Pier25-1	-79.17	Jul-05							0.0
Pier25-1	-89.17	Jul-05							0.0
Pier25-1	-69.17	Jul-05							0.0
Pier25-1	-59.17	Jul-05							0.0
Pier25-1	-45.67	Jun-05							0.0
NL-9	-7.4	Jun-05							0.0
NL-7	-1.4	May-05							0.0
NL-7	-12.4	May-05							0.0
NL-7	-6.4	May-05							0.0
NL-6	-6.4	May-05							0.0
NL-5	-9.8	Jun-04							0.0
NL-5	0.6	Jun-04							0.0
NL-4	5.35	Jun-04							0.0
NL-4	-4.4	Jun-04							0.0
NL-4	-9.4	Jun-04							0.0
NL-30	-51.07	Jan-07							0.0
NL-30	-46.07	Jan-07							0.0
NL-30	-41.07	Jan-07							0.0
NL-30	-36.07	Jan-07							0.0
NL-30	-31.07	Jan-07							0.0
NL-3	-11.4	Jun-04							0.0
NL-29	-27.32	Jan-07							0.0
NL-29	-22.32	Jan-07							0.0
NL-29	-32.32	Jan-07							0.0
NL-28	-26.22	Jan-07							0.0
NL-28	-21.22	Jan-07							0.0
NL-28	-31.22	Jan-07							0.0
NL-26	-48.22	Jan-07							0.0
NL-26	-43.22	Jan-07							0.0
NL-26	-33.22	Jan-07							0.0
NL-26	-38.22	Jan-07							0.0
NL-26	-28.22	Jan-07							0.0
NL-25	-55.32	Jan-07							0.0
NL-25	-40.32	Jan-07							0.0
NL-25	-50.32	Jan-07							0.0
NL-25	-35.32	Jan-07							0.0
NL-23	-36.07	Aug-06							0.0
NL-22	-13.4	Jul-06							0.0
NL-22	-3.4	Jul-06							0.0
NL-21	-7.4	Jul-06							0.0
NL-21	-13.4	Jul-06							0.0
NL-21	8.6	Jul-06							0.0
NL-21	2.6	Jul-06							0.0
NL-21	6.6	Jul-06							0.0
NL-20	8.6	Jul-06							0.0
NL-20	-7.4	Jul-06							0.0
NL-20	2.6	Jul-06							0.0
NL-20	-13.4	Jul-06							0.0
NL-2	-5.4	Jun-04							0.0
NL-2	-10.4	Jun-04							0.0
NL-19	-13.4	Aug-06							0.0
NL-19	2.6	Jul-06							0.0
NL-18	-7.4	Aug-06							0.0

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 THRESHOLD CHEMICAL CONCENTRATION IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
NL-17	-26.32	Mar-06							0.0
NL-16	-33.32	May-06							0.0
NL-16	-36.32	May-06							0.0
NL-15	-29.87	Dec-05							0.0
NL-15	-35.87	Dec-05							0.0
NL-15	-32.87	Dec-05							0.0
NL-14	-39.17	Dec-05							0.0
NL-13	-32.87	Dec-05							0.0
NL-13	-35.87	Dec-05							0.0
NL-13	-29.87	Dec-05							0.0
NL-12	-7.4	Jun-05							0.0
NL-10	-12.65	Jun-05							0.0
NL-10	-10.4	Jun-05							0.0
NL-1	-9.5	Jun-04							0.0
HYD-2	-63.62	Aug-05							0.0
HYD-2	-73.12	Aug-05							0.0
HYD-1	-67.62	Aug-05							0.0
HYD-1	-47.62	Aug-05							0.0
HYD-1	-57.62	Aug-05							0.0
HYD-1	-77.62	Aug-05							0.0
H-01	-48.59	Jun-13							0.0
H-01	-58.59	Jun-13							0.0
H-01	-67.09	Jun-13							0.0
H-01	-77.59	Jun-13							0.0
H-01	1.41	Jun-13							0.0
H-01	-38.59	Jun-13							0.0
H-01	-28.59	Jun-13							0.0
G	-99.12	Jul-13							0.0
G	-115.62	Jul-13							0.0
G	-106.12	Jul-13							0.0
G	-89.62	Jul-13							0.0
G	-54.62	Jul-13							0.0
G	-69.12	Jul-13							0.0
G	-59.62	Jul-13							0.0
G	-79.12	Jul-13							0.0
G	-83.62	Jul-13							0.0
G	-38.62	Jul-13							0.0
G	-44.12	Jul-13							0.0
G	-49.12	Jul-13							0.0
G	-29.12	Jul-13							0.0
G	-19.62	Jul-13							0.0
G	-5.62	Jul-13							0.0
G	1.38	Jul-13							0.0
F-Shallow-New	-85.3	Sep-13							0.0
F-Deep	-79.83	Jul-13							0.0
F-Deep	-89.83	Jul-13							0.0
F-Deep	-53.33	Jul-13							0.0
F-Deep	-61.83	Jul-13							0.0
F-Deep	-71.33	Jul-13							0.0
F-Deep	-22.83	Jun-13							0.0
F-Deep	-30.83	Jun-13							0.0
F-Deep	-14.83	Jun-13							0.0
F-Deep	-4.83	Jun-13							0.0
F-Deep	3.17	Jun-13							0.0
F-Deep	-42.83	Jun-13							0.0
EXT-9-Deep	-191.42	Jul-13							0.0
EXT-9-Deep	-12.42	Jul-13							0.0

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
EXT-9-Deep	2.58	Jul-13							0.0
EXT-9-Deep	-52.42	Jul-13							0.0
EXT-9-Deep	-44.92	Jul-13							0.0
EXT-9-Deep	-7.42	Jul-13							0.0
EXT-9-Deep	-34.92	Jul-13							0.0
EA-3	-149.32	Nov-05							0.0
EA-3	-144.32	Nov-05							0.0
EA-3	-139.32	Nov-05							0.0
EA-3	-134.32	Nov-05							0.0
EA-3	-124.32	Nov-05							0.0
EA-3	-129.32	Nov-05							0.0
EA-3	-109.32	Nov-05							0.0
EA-3	-79.32	Oct-05							0.0
EA-3	-89.32	Oct-05							0.0
EA-3	-84.32	Oct-05							0.0
EA-3	-74.32	Oct-05							0.0
EA-3	-69.32	Oct-05							0.0
EA-3	-54.32	Oct-05							0.0
EA-3	-64.32	Oct-05							0.0
EA-3	-59.32	Oct-05							0.0
EA-3	-34.32	Oct-05							0.0
EA-3	-49.32	Oct-05							0.0
EA-3	-39.32	Oct-05							0.0
EA-3	-44.32	Oct-05							0.0
EA-3	-19.32	Oct-05							0.0
EA-3	-14.32	Oct-05							0.0
CH-5	7.6	Jun-06							0.0
CH-5	10.6	Jun-06							0.0
CH-5	4.6	Jun-06							0.0
CH-4	-2.9	Jun-06							0.0
CH-4	10.6	May-06							0.0
CH-4	7.6	May-06							0.0
CH-2	10.6	Jun-06							0.0
CH-2	7.6	Jun-06							0.0
CH-1	10.6	Jun-06							0.0
CH-1	7.6	Jun-06							0.0
BH-6-96	1.8	Mar-96							0.0
BH-2-96	6.8	Mar-96							0.0
BH-14-96	8.35	Apr-96							0.0
A	-181.62	Jul-13							0.0
A	-37.62	Jul-13							0.0
A	-29.12	Jul-13							0.0
89C	-144.83	Jul-12							0.0
89C	-126.33	Jul-12							0.0
89C	-177.33	Jul-12							0.0
89C	-134.83	Jul-12							0.0
89C	-117.33	Jul-12							0.0
89C	-187.33	Jul-12							0.0
89C	-152.33	Jul-12							0.0
89C	-159.83	Jul-12							0.0
89C	-166.33	Jul-12							0.0
89C	-80.83	Jun-12							0.0
89C	-62.33	Jun-12							0.0
89C	-55.33	Jun-12							0.0
721-MW11	-52.56	Jul-12							0.0
721-MW11	-63.56	Jul-12							0.0
721-MW11	-13.56	Jul-12							0.0

APPENDIX S

KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
721-GP5	6.6	Jun-04							0.0
721-GP5	1.6	Jun-04							0.0
721-GP5	-18.4	Jun-04							0.0
721-BH-18	6.13	Jun-12							0.0
721-BH-17	5.74	Oct-12							0.0
721-BH-17	-8.26	Oct-12							0.0
721-BH-16	4.67	May-12							0.0
721-BH-13	6.81	May-12							0.0
721-BH-12	5.95	May-12							0.0
721-BH-11	-12.46	May-12							0.0
721-BH-11	-5.46	May-12							0.0
721-BH-10	4.7	May-12							0.0
721-BH-10	7.7	May-12							0.0
721-BH-09	8.58	Jun-12							0.0
721-BH-09	3.58	Jun-12							0.0
721-BH-08	6.81	May-12							0.0
721-BH-07	5.3	May-12							0.0
721-BH-05	5.85	May-12							0.0
721-BH-04	2.97	May-12							0.0
721-BH-03	3.44	May-12							0.0
721-BH-02	1.81	May-12							0.0
721-BH-01	1.41	May-12							0.0
709-MW9-15	4.1	Jul-95							0.0
709-MW9-15	-4.4	Jul-95							0.0
709-MW5-15	2.35	Jan-94							0.0
709-MW3-15	6.85	Jan-94							0.0
709-MW3-15	-5.15	Jan-94							0.0
709-MW2-15	6.19	Jan-94							0.0
709-MW21	8.74	Jun-12							0.0
709-MW19-15	3.89	Jul-95							0.0
709-MW18-15	5.6	Jul-95							0.0
709-MW17-15	5.6	Jul-95							0.0
709-MW17-15	-2.4	Jul-95							0.0
709-MW16-15	5.6	Jul-95							0.0
709-MW16-15	-4.4	Jul-95							0.0
709-MW15-15	-16.47	Jul-96							0.0
709-MW15-15	6.53	Jul-95							0.0
709-MW14-15	6.6	Jul-95							0.0
709-MW13-15	4.5	Jul-95							0.0
709-MW12-15	-4.4	Jul-95							0.0
709-MW12-15	6.6	Jul-95							0.0
709-MW1-15	5.42	Jan-94							0.0
709-MW11-15	6.6	Jul-95							0.0
709-MW11-15	-4.4	Jul-95							0.0
709-MW-10-15	6.6	Jul-95							0.0
709-MW-10-15	-4.4	Jul-95							0.0
709-BH-11	5.455	Jun-12							0.0
709-BH-09	3.92	May-12							0.0
709-BH-09	6.545	May-12							0.0
709-BH-08	4.18	May-12							0.0
709-BH-07	3.665	May-12							0.0
709-BH-06	7.5	May-12							0.0
709-BH-05	6.04	May-12							0.0
709-BH-05	2.79	May-12							0.0
709-BH-04	4.01	May-12							0.0
709-BH-04	1.51	May-12							0.0
5106-9	-140.42	Nov-05							0.0

APPENDIX S

KUEPER-DAVIES CALCULATION 4
 THRESHOLD CHEMICAL CONCENTRATION IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106-9	-55.42	Nov-05							0.0
5106-8	-121.52	Aug-05							0.0
5106-8	-131.52	Aug-05							0.0
5106-8	-126.52	Aug-05							0.0
5106-8	-116.02	Aug-05							0.0
5106-8	-106.52	Aug-05							0.0
5106-8	-111.52	Aug-05							0.0
5106-8	-96.52	Aug-05							0.0
5106-8	-101.52	Aug-05							0.0
5106-8	-91.52	Aug-05							0.0
5106-8	-81.52	Aug-05							0.0
5106-8	-86.52	Aug-05							0.0
5106-8	-76.52	Aug-05							0.0
5106-8	-71.52	Aug-05							0.0
5106-8	-61.52	Aug-05							0.0
5106-8	-56.52	Aug-05							0.0
5106-8	-66.52	Aug-05							0.0
5106-7	-130.05	Aug-05							0.0
5106-7	-115.05	Aug-05							0.0
5106-7	-110.05	Aug-05							0.0
5106-7	-95.05	Aug-05							0.0
5106-7	-100.05	Aug-05							0.0
5106-7	-120.05	Aug-05							0.0
5106-7	-125.05	Aug-05							0.0
5106-7	-105.05	Aug-05							0.0
5106-7	-90.05	Aug-05							0.0
5106-7	-85.05	Aug-05							0.0
5106-7	-60.05	Aug-05							0.0
5106-7	-80.05	Aug-05							0.0
5106-7	-75.05	Aug-05							0.0
5106-6	-127.92	Oct-05							0.0
5106-6	-132.92	Oct-05							0.0
5106-6	-147.92	Oct-05							0.0
5106-6	-152.92	Oct-05							0.0
5106-6	-137.92	Oct-05							0.0
5106-6	-117.92	Oct-05							0.0
5106-6	-97.92	Oct-05							0.0
5106-6	-112.92	Oct-05							0.0
5106-6	-122.92	Oct-05							0.0
5106-6	-87.92	Oct-05							0.0
5106-5	-113.42	Sep-05							0.0
5106-5	-108.42	Sep-05							0.0
5106-5	-78.42	Sep-05							0.0
5106-32	-71.82	May-06							0.0
5106-32	-51.82	May-06							0.0
5106-32	-31.82	May-06							0.0
5106-32	-41.82	May-06							0.0
5106-31	-45.22	Apr-06							0.0
5106-31	-55.22	Apr-06							0.0
5106-31	-65.22	Apr-06							0.0
5106-31	-34.22	Apr-06							0.0
5106-31	-24.22	Apr-06							0.0
5106-31	-4.22	Apr-06							0.0
5106-30	-70.4	Apr-06							0.0
5106-30	-60.4	Apr-06							0.0
5106-30	-31.4	Apr-06							0.0
5106-30	-50.4	Apr-06							0.0

APPENDIX S

KUEPER-DAVIES CALCULATION 4
 THRESHOLD CHEMICAL CONCENTRATION IN SOIL
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106-30	-0.65	Apr-06							0.0
5106-30	-20.4	Apr-06							0.0
5106-30	-40.4	Apr-06							0.0
5106-3	-158.32	Sep-05							0.0
5106-3	-163.32	Sep-05							0.0
5106-3	-148.32	Sep-05							0.0
5106-3	-153.32	Sep-05							0.0
5106-3	-143.32	Sep-05							0.0
5106-3	-138.32	Sep-05							0.0
5106-29	-45.67	Apr-06							0.0
5106-29	-35.67	Apr-06							0.0
5106-29	-7.67	Apr-06							0.0
5106-29	-16.67	Apr-06							0.0
5106-28	-55.9	Apr-06							0.0
5106-28	-45.9	Apr-06							0.0
5106-28	-35.9	Apr-06							0.0
5106-28	-25.9	Apr-06							0.0
5106-27	-22.72	Apr-06							0.0
5106-27	-17.72	Apr-06							0.0
5106-26	-87.42	Feb-06							0.0
5106-26	-92.42	Feb-06							0.0
5106-26	-97.42	Feb-06							0.0
5106-26	-82.42	Feb-06							0.0
5106-26	-77.42	Feb-06							0.0
5106-26	-67.42	Feb-06							0.0
5106-26	-62.42	Feb-06							0.0
5106-26	-72.42	Feb-06							0.0
5106-26	-12.42	Feb-06							0.0
5106-26	-5.42	Feb-06							0.0
5106-25	-9.52	Apr-06							0.0
5106-25	-69.52	Apr-06							0.0
5106-25	-79.52	Apr-06							0.0
5106-24	-11.52	Feb-06							0.0
5106-24	-31.52	Feb-06							0.0
5106-24	-16.52	Feb-06							0.0
5106-23	-26.92	Feb-06							0.0
5106-23	-36.92	Feb-06							0.0
5106-23	-31.92	Feb-06							0.0
5106-23	-21.92	Feb-06							0.0
5106-22	-136.52	Jan-06							0.0
5106-22	-116.52	Jan-06							0.0
5106-22	-106.52	Jan-06							0.0
5106-22	-96.52	Jan-06							0.0
5106-22	-36.52	Jan-06							0.0
5106-22	-46.52	Jan-06							0.0
5106-22	-38.52	Jan-06							0.0
5106-22	-66.52	Jan-06							0.0
5106-22	-56.52	Jan-06							0.0
5106-22	-86.52	Jan-06							0.0
5106-22	-76.52	Jan-06							0.0
5106-21	-124.92	Jan-06							0.0
5106-21	-129.92	Jan-06							0.0
5106-21	-119.92	Jan-06							0.0
5106-21	-114.92	Jan-06							0.0
5106-21	-79.92	Jan-06							0.0
5106-20	-130.32	Jan-06							0.0
5106-20	-125.32	Jan-06							0.0

APPENDIX S

KUEPER-DAVIES CALCULATION 4
THRESHOLD CHEMICAL CONCENTRATION IN SOIL
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Threshold Chemical Concentration in Soil
Single component soil threshold calculation			858,098	2,410,037	108,802	1,699,433	555,527	2,876,177	
Well-ID	Elevation	Sample date	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
5106-20	-115.32	Jan-06							0.0
5106-20	-42.32	Jan-06							0.0
5106-19	-55.92	Jan-06							0.0
5106-13	-144.02	Nov-05							0.0
5106-13	-139.02	Nov-05							0.0
5106-13	-44.02	Nov-05							0.0
5106-11	-147.32	Oct-05							0.0
5106-11	-122.32	Oct-05							0.0
5106-11	-132.32	Oct-05							0.0
5106-11	-127.32	Oct-05							0.0
5106-11	-117.32	Oct-05							0.0
5106-11	-137.32	Oct-05							0.0
5106-11	-97.32	Oct-05							0.0
5106-11	-107.32	Oct-05							0.0
5106-11	-102.32	Oct-05							0.0
5106-11	-112.32	Oct-05							0.0
5106-11	-92.32	Oct-05							0.0
5106-11	-87.32	Oct-05							0.0
5106-11	-52.32	Oct-05							0.0
5106-11	-47.32	Oct-05							0.0
5106-11	-67.32	Oct-05							0.0
5106-11	-77.32	Oct-05							0.0
5106-11	-57.32	Oct-05							0.0
5106-11	-62.32	Oct-05							0.0
5106-11	-82.32	Oct-05							0.0
5106-1	-139.62	Sep-05							0.0
5106-1	-129.62	Sep-05							0.0
5106-1	-134.62	Sep-05							0.0
5106 T4-50	-36.67	Nov-95							0.0
5106 T4-140	-39.22	Nov-95							0.0
5106 T4-140	-41.12	Nov-95							0.0
5106 T3-100	-40.82	Nov-95							0.0
5106 T2-175	-40.47	Nov-95							0.0
5106 T2-140	-40.22	Nov-95							0.0
5106 T2-140	-41.87	Nov-95							0.0
5106 T2-100	-38.32	Nov-95							0.0
5106 T1-550	-39.67	Nov-95							0.0
5106 T1-475	-41.82	Nov-95							0.0
5106 T1-475	-44.32	Nov-95							0.0
5106 T1-475	-39.32	Nov-95							0.0
5106 T1-175	-38.47	Nov-95							0.0
5106 T1-175	-35.82	Nov-95							0.0
5106 T1-100	-37.62	Nov-95							0.0
47-15	2.9	Nov-95							0.0
47-15	-3.1	Nov-95							0.0
17C	-99.13	Jul-12							0.0
17C	-33.43	Jul-12							0.0
17C	-23.53	Jul-12							0.0
11-75	-27.25	Jul-12							0.0

APPENDIX S

KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

Sample Location:	Elevation	Sample date:	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
5106-2	-76.42	Jan-06	10000	630000	100000	350	2500000	870000	2.64
WMUA-15	-3.4	Aug-06		2500	170000		88000		0.89
WMUA-12	-6.9	Aug-06	56	8700	150000	130	130000	1100	0.83
10-24	-11.6	Aug-12			170000		5600		0.83
WMUA-18	-15.4	Aug-06	180	36000	100000	350	110000	9300	0.58
21-25R	-9.5	Apr-06			100000		39000		0.52
SP-5	-47.9	Jun-06	460	2500	80000	350	110000	4500	0.48
SP-3	-12.9	Jun-06	660		35600		381000		0.47
PT-13	-55.45	Jun-04			78000		90000		0.45
SP-5	-12.9	Jun-06	660	510	70000	170	130000	8.7	0.44
H-01	-151.59	Jun-13	930	25000	36000	1200	210000	6700	0.35
SP-5	-87.9	Jun-06	140	640	62000		55000	750	0.34
WMUA-14	-10.4	Aug-06	220	94000	26000	1700	190000	1100	0.29
SP-5	-7.9	Jun-06	1000	240	50000	70	63000	110	0.29
SP-5	-22.9	Jun-06	230	34000	48000	110	61000	3800	0.29
WMUA-15	-12.4	Aug-06	420	100000	25000	2200	180000	7100	0.28
SP-4	-7.9	Jun-06		800	32700		118000	458	0.25
PZ-7	-28.3341	Jul-04	340	230000	15000	330	180000	7200	0.25
PT-12A	-100.22	Oct-05	54	240	44000	19	42000	120	0.25
5106-2	-86.42	Jan-06	630	11000	25000	170	150000	4400	0.24
EXT-9-Shallow	-107.91	Sep-13	330	54000	14000	1800	190000	12000	0.23
HC-N6-1	-0.32	Sep-10		500	47000		1600		0.23
5106-1	-80.12	Sep-05		107000	4500	365	214000	171000	0.23
SP-6	-37.9	Jun-06	1100	170000	14000	1900	160000	15000	0.23
SP-6	-67.9	Jun-06		2200	43000		21000	150	0.23
SP-5	-67.9	Jun-06	180	15000	41000	120	29000	180	0.22
SP-3	-22.9	Jun-06		940	29900		84700	660	0.21
4-83R	-67.3	Apr-06		15000	20000		140000	2200	0.21
5106-1	-100.12	Sep-05	1080	21300	11200	247	177000	796	0.20
5106-1	-75.12	Sep-05		179000	3940	459	158000	219000	0.20
EXT-9	-100.43	Jul-13	490	65000	9300	2100	170000	7300	0.19
WMUA-14	-7.4	Aug-06	420	320000	12000	3100	87000	390	0.18
77C-160	-154.02	Jul-12	1300	43000	6100	5800	170000	2500	0.18
5106-2	-96.42	Jan-06	240	1700	15000	78	140000	260	0.18
SP-6	-22.9	Jun-06	1000	180000	24000	850	45000	4600	0.18
SP-5	-57.9	Jun-06	1000	73000	17000	880	110000	75	0.18
SP-6	-47.9	Jun-06	530	8700	20000	810	100000	210	0.18
5106-1	-105.12	Sep-05			23200		82800		0.18
PT-13A	-39.73	Nov-05			34300				0.17
5106-9	-95.92	Nov-05		8500	12000		120000	1200	0.15
SP-6	-87.9	Jun-06	61	11000	26000	81	27000	600	0.15
SP-8	-97.9	Jul-06			23500	1260	37900	616	0.15
Pier25-12	-107.52	Feb-06	1160	68900	10800	835	90100	21900	0.14
H-01	-141.59	Jun-13	1200	81000	12000	1800	76000	26000	0.14
SP-3	-32.9	Jun-06		885	20300		41200		0.13
WMUA-18	-27.4	Aug-06	180	17000	12000	330	86000	13000	0.13
SB-B-DEEP	-142.45	Aug-13	510	12000	13000	460	75000	860	0.12
PT-13A	-89.83	Nov-05		620	20300		31500	200	0.12
PT-12A	-110.22	Oct-05	410	1700	12000	210	82000	47	0.12
WMUA-11	-6.4	Aug-06	26	6100	21000	100	22000	220	0.12
SP-6	-12.9	Jun-06	16	61	19000	5.6	28000	16	0.11
WMUA-19	-7.4	Aug-06	170	5300	17000	140	33000	870	0.11
Pier25-13	-110.62	Feb-06	430	7100	2700	130	120000	1200	0.11
HYD-4	-58.62	Sep-05		129000	11700	530	29000	40300	0.11

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
Pier25-12	-127.52	Feb-06	696	14900	3320	224	108000	607	0.10
EXT-9	-150.43	Jul-13	480	11000	11000	960	55000	330	0.10
PT-15	-36.96	Jun-04			19000		6300		0.10
5106-2	-116.42	Jan-06	26	810	17000	13	18000		0.10
Pier25-18	-104.32	Dec-05	560	11000	2600	260	97000	1400	0.09
Pier25-13	-100.62	Feb-06	970	32000	1600	280	96000	16000	0.09
HC-N6-4	-0.32	Sep-10		280	17000		1800		0.08
EXT-9	-130.43	Jul-13	1700	57000	2200	3400	71000	4200	0.08
EXT-9	-110.43	Jul-13	210	38000	3300	1000	73000	7600	0.08
SP-6	-7.9	Jun-06	190	980	15000	27	10000	4000	0.08
4-45R	-30.6	Feb-04		3800	12000		27000	1700	0.08
5106-13	-64.52	Nov-05	2000	420000		2200	9.7	77000	0.08
53-50	-35.1	Apr-06		1300	16000		2200		0.08
SP-3	-7.9	Jun-06		325	6070		63900		0.08
SP-4	-57.9	Jun-06	77.6	454	13300	42.8	18200	718	0.08
PT-13	-77.95	Jun-04			7900		52000		0.08
SP-3	-57.9	Jun-06			11500		28900		0.08
HYD-3	-110.61	Aug-05	373	42300	1490	1690	75000	8030	0.08
EA-2	-4.82	Oct-05	74	47000	10100	398	935	169000	0.08
Pier25-13	-120.62	Feb-06	570	34000	4800	280	61000	120	0.08
D-5	-82.68	May-06	180	32000	7500	560	42000	13000	0.08
HYD-3	-100.61	Aug-05	406	83500		2610	72100	3680	0.08
HYD-2	-133.62	Aug-05	1100	73900	2780	846	61800	387	0.08
SP-6	-57.9	Jun-06	80	3600	14000	27	9000	65	0.08
5106-1	-90.12	Sep-05	1790	84500		545	68800	44700	0.07
HYD-1	-128.12	Sep-05	1160	29200	2670	1260	66500	3180	0.07
5106-13	-69.52	Nov-05	1800	360000		2100	8.9	91000	0.07
WMUA-13	-7.9	Aug-06	200	120000	3100	1800	42000	400	0.07
53C-50	-34.74	Jul-12	240	20000	6600	240	44000	3900	0.07
EXT-9	-140.43	Jul-13	710	20000	3800	1100	59000	1400	0.07
5106-13	-74.52	Nov-05	2600	310000		2300	5.9	130000	0.07
HYD-2	-123.62	Aug-05	843	18200	505	351	78800	3580	0.07
HYD-4	-68.62	Sep-05	122	7150	8770	41.3	29900	8850	0.07
1-100R	-90.4	Apr-06		760	8600	170	32000	940	0.07
HYD-1	-88.12	Sep-05	650	124000		3220	49100	7120	0.07
SP-4	-12.9	Jun-06			12200		8110	92	0.07
5106-13	-59.52	Nov-05	2600	320000		2500	6.8	66000	0.06
EXT-9	-120.43	Jul-13	240	45000	2500	1300	52000	7100	0.06
EXT-9-Int	-139.94	Sep-13	200	8600	6200	200	39000	80	0.06
Pier25-12	-77.52	Feb-06	761	156000	72.5	4580	32500	15700	0.06
EA-1	-36.32	Sep-05		2390	9370		20100	2660	0.06
Pier25-25	-71.42	Jan-06	3010	269000		2260		115000	0.06
EA-1	-81.32	Sep-05	321	24300	2880	62.9	48900	41600	0.06
83C-100	-85.34	Jul-12	260	23000	5200	120	37000	22000	0.06
SP-5	-32.9	Jun-06		280	9100	200	14000	18000	0.06
59-25	-9.64	Apr-06	63	20000	8900	100	12000	8000	0.06
Pier25-12	-87.52	Feb-06	491	92600	115	1730	41900	39600	0.06
PT-12A	-120.22	Oct-05	30	580	9100	28	15000	15	0.06
SP-2	2.1	Jul-06		17	20	1.2	8.6	490000	0.06
HC-N6-3	-0.32	Sep-10			11000		1100		0.05
5106-1	-65.12	Sep-05	1030	227000		2240		92900	0.05
78-25	-12.21	Apr-06	590	140000		7600	13000	20000	0.05
Pier25-18	-114.32	Dec-05	550	31000	980	260	52000	230	0.05
5106-9	-60.92	Nov-05	2300	250000		1900	8.4	58000	0.05
HYD-1	-118.12	Sep-05	1020	27100	973		52000	5970	0.05

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
5106-9	-80.92	Nov-05	1700	170000		1500	7.9	170000	0.05
SP-8	-47.9	Jul-06	130	20400	1140	64.8	47800	23400	0.05
4-25R	-10.6	Apr-06	69	3700	8400	49	8600	5800	0.05
5106-2	-56.42	Jan-06	620	130000	260	1200	23000	47000	0.05
Pier25-17	-79.02	Nov-05	450	100000	13	6000	22000	4000	0.05
5106-1	-56.12	Sep-05	1470	132000		2140	18200	52000	0.05
5106-9	-65.92	Nov-05	1100	200000		1200	5.2	100000	0.05
PT-15A	-85.82	Nov-05			9400				0.05
5106-1	-95.12	Sep-05	899	48600	416	348	42800	5040	0.04
94C-100	-84.87	Sep-13	210	68000	5000	680	2500	49000	0.04
5106-1	-85.12	Sep-05	1910	209000		808		72300	0.04
Pier25-18	-84.32	Dec-05	1300	110000	1.4	1100	19	200000	0.04
74-130	-115.72	Aug-06	94	29000	240	1000	44000	2700	0.04
5106-1	-60.12	Sep-05	1410	204000		3330		20900	0.04
5106-13	-79.52	Nov-05	1900	160000	0.58	1600	7	110000	0.04
SP-5	-37.9	Jun-06	33	68	6900	250	6100	25000	0.04
SB-B-DEEP	-92.45	Aug-13	370	140000		2000	17000	13000	0.04
Pier25-18	-74.32	Dec-05	2800	150000		3800		72000	0.04
HC-N6-2	-0.32	Sep-10		180	8200		1100		0.04
5106-2	-106.42	Jan-06	18	2000	6100	18	13000		0.04
SB-B-DEEP	-122.45	Aug-13	990	36000	1800	660	30000	3600	0.04
Pier25-12	-117.52	Feb-06	993	47700	463	350	34000	11000	0.04
SB-B-DEEP	-132.45	Aug-13	350	9100	2500	210	31000	1700	0.04
61C-160	-157.46	Jul-12	360	6500	2100	730	31000	440	0.04
5106-1	-70.12	Sep-05						327000	0.04
SP-1	-12.9	Jun-06		236	5660		12200		0.04
SP-6	-32.9	Jun-06	770	150000	170	980	110	85000	0.04
5106-9	-85.92	Nov-05	1600	130000		1300	28	110000	0.04
H-01	-131.59	Jun-13	900	87000		3400		130000	0.04
Pier25-13	-70.62	Feb-06	210	48000	15	870	33000	2100	0.04
HYD-2	-113.62	Aug-05	1310	48100	243	1310	26100	15900	0.03
5106-9	-90.92	Nov-05	1600	88000		600	20000	22000	0.03
D-3	-41.6	May-06		26000	4100	180	11000	6500	0.03
5106-9	-70.92	Nov-05	390	32000		970	7.1	230000	0.03
EA-1	-14.32	Sep-05		375	5250		9690	78.6	0.03
HYD-3	-90.61	Aug-05	463	125000		4090	630	31100	0.03
WW-A1R	-85.5	Aug-12	600	100000		2500	12000	17000	0.03
Pier25-12	-97.52	Feb-06	2800	126000		2910	577	41500	0.03
5106-3	-53.82	Sep-05		3960				274000	0.03
PZ-SHI-1-126	-114.64	Apr-06	760	65000		1300	21000	17000	0.03
SB-B-DEEP	-102.45	Aug-13	280	100000		880	15000	19000	0.03
SP-7	-7.9	Jun-06		790	2400		25000	180	0.03
Pier25-18	-64.32	Dec-05	2400	110000		2500	6.2	67000	0.03
Pier25-17	-99.02	Nov-05	2000	120000	13	2100	1900	46000	0.03
5106-20	-85.82	Jan-06	509	73000		1090		148000	0.03
Pier25-19	-87.02	Dec-05	1560	121000		1450		69900	0.03
EA-2	-14.82	Oct-05	8.45	480	5650	8.52	3870	594	0.03
5106-9	-100.92	Nov-05		7800	1700		27000		0.03
SP-4	-77.9	Jun-06	16.2	772	5390	61.4	3990	740	0.03
PZ-SHI-2-25	-12.82	Apr-06		37000			28300	12000	0.03
D-4	-88.3	May-06	62	10000	2800	180	17000	2400	0.03
SP-5	-77.9	Jun-06		97	5300		3700		0.03
5106-21	-75.42	Jan-06	396	36600		977		181000	0.03
SP-1	-47.9	Jun-06	157	21700	288	782	20000	54400	0.03
WW-A1R	-95.5	Aug-12	1100	100000		2600	1600	38000	0.03

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
5106-5	-63.92	Sep-05		2210	1010		28200		0.03
Pier25-10	-98.99	Oct-05	880	100000		3500	890	25000	0.03
H-01	-121.59	Jun-13	350	64000		2700	13000	8500	0.03
5106-2	-66.42	Jan-06	24	210	42	590	160	220000	0.03
WW-A1R	-115.5	Aug-12	1300	34000		340	25000	4200	0.03
WW-A1R	-105.5	Aug-12	1900	100000		2000	1200	32000	0.03
5106-9	-55.92	Nov-05	1800	67000		1500	7	94000	0.03
5106-26	-47.92	Feb-06	1000	120000		1500	10	24000	0.03
SP-4	-47.9	Jun-06			4280	882	1950	6810	0.03
7-25	-9.5	Aug-12	200	130000		1000	600	16000	0.02
5106-21	-70.42	Jan-06	220	26500		749		166000	0.02
5106-13	-94.52	Nov-05	780	64000	140	390	13000	23000	0.02
HYD-3	-120.61	Aug-05	2240	59000		381	16700	992	0.02
5106-20	-75.82	Jan-06	537	42900		1050		124000	0.02
5106-13	-84.52	Nov-05	850	62000		880	22	98000	0.02
5106-1	-110.12	Sep-05	58.8	4460	1780	33.5	17500	27.9	0.02
5106-13	-89.52	Nov-05	900	67000		970	42	88000	0.02
PZ-SHI-2-75	-61.18	Aug-12		54000	350	500	14000	7000	0.02
5106-21	-65.42	Jan-06	385	76000		560		79400	0.02
C-2	-40.8	May-06		55000	860	890	8400	8300	0.02
SP-4	-37.9	Jun-06		2410	3480		5160	7750	0.02
Pier25-6	-99.02	Aug-05	633	86000		2670	594	17700	0.02
PT-15A	-75.82	Nov-05			4540				0.02
BH-72	-87.9	Aug-06		91000		1300	3000	23000	0.02
Pier25-19	-107.02	Dec-05	741	66200		922	828	72300	0.02
5106-20	-80.82	Jan-06	343	27100		994		129000	0.02
EA-1	-96.32	Sep-05	6.7	28.7	2580	24.1	11000		0.02
Pier25-25	-101.42	Jan-06	245	28200		1220	31.5	122000	0.02
HYD-1	-108.12	Sep-05	860	76300		1590		46200	0.02
SP-1	-7.9	Jun-06	51.5	501	2980		8060	1030	0.02
SP-8	-57.9	Jul-06		885	1390	1780	2140	71800	0.02
SB-B-DEEP	-112.45	Aug-13	560	46000		850	170	98000	0.02
SP-3	-37.9	Jun-06		568	2460		10700		0.02
SP-1	-57.9	Jun-06	158	3950	255	48.8	23200	610	0.02
5106-20	-90.82	Jan-06	314	20400		920		128000	0.02
Pier25-18	-94.32	Dec-05	580	31000	0.54	950	62	110000	0.02
Pier25-25	-61.42	Jan-06	1010	57200		1100	0.308	69400	0.02
5106-26	-42.92	Feb-06	760	81000		1100	11	36000	0.02
SP-4	-67.9	Jun-06	31	7390	3300	17.8	2400	1420	0.02
SP-1	-32.9	Jun-06		274	42	448	48	150000	0.02
T1-100	-85.43	Apr-06	130	61000		1400	3100	27000	0.02
SP-6	-77.9	Jun-06		700	3400		1800	52	0.02
C-4	-40.6	May-06	34	2900	2900	110	4100	81	0.02
5106-24	-52.02	Feb-06	464	54000		463		73400	0.02
5106-3	-58.82	Sep-05	165	69500		241		57500	0.02
G	-132.62	Jul-13	160	65000		2200	2300	9000	0.02
H-01	-111.59	Jun-13	200	72000		2000	1100	11000	0.02
5106-24	-62.02	Feb-06	474	69000		438		50800	0.02
5106-10	-71.72	Nov-05	520	65000	23	920	330	39000	0.02
Pier25-13	-80.62	Feb-06	1100	76000	3.7	1500	320	11000	0.02
Pier25-25	-90.92	Jan-06	567	45600		962	1760	55300	0.02
SP-8	-32.9	Jul-06	43	17100	883	146	4210	56200	0.02
SP-7	-32.9	Jun-06	270	62000		700	6700	2000	0.02
61C-130	-114.56	Jul-12		20000	150	850	14000	460	0.02
Pier25-24	-92.32	Jan-06	420	24000		900		95000	0.02

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
SP-4	-22.9	Jun-06		40	2970	45	1590	6850	0.02
SP-1	-37.9	Jun-06			100	422	158	132000	0.02
5106-26	-37.92	Feb-06	690	52000		850	9.6	47000	0.02
EXT-9	-90.43	Jul-13	210	55000		1400	3500	6900	0.02
Pier25-6	-109.02	Aug-05	448	56000		1840	644	14900	0.02
53C-75	-59.57	Jul-12	90	23000	1000	130	5000	22000	0.02
Pier25-10	-88.99	Oct-05	580	57000		1700	5.9	18000	0.01
Pier25-17	-70.82	Dec-05	333	54000		1280	1440	19800	0.01
10-100	-87.2	Aug-12		1600		3900		51000	0.01
EA-1	-31.32	Sep-05	30.9	18200	1680	27.1	3600	1770	0.01
22-50	-35.4	Aug-12		800	2100		4700	58	0.01
83C-50	-35.47	Jul-12	9	1800	2700		520	310	0.01
5106-26	-32.92	Feb-06	780	52000		830	2.5	31000	0.01
Pier25-17	-119.02	Nov-05	880	25000	25	720	7700	15000	0.01
G-Shallow	-132.13	Sep-13	98	56000		1500	700	9100	0.01
SB-B-DEEP	-152.45	Aug-13	64	3100	1500	75	6900	1300	0.01
WMUA-12	-10.4	Aug-06	75	32000	570	1300	650	19000	0.01
Pier25-2	-119.02	Jul-05	320	53000		1320	403	14800	0.01
Pier25-20	-77.72	Dec-05	770	53000		1200	2.8	17000	0.01
5106-13	-99.52	Nov-05	520	60000	0.7	450	540	19000	0.01
24-50	-35.4	Aug-12		45000	380	850	2400	3300	0.01
59-50	-34.77	Apr-06	89	33000	220	180	6600	10000	0.01
Pier25-15	-67.72	Nov-05	460	41000		580	0.6	44000	0.01
Pier25-17	-89.02	Nov-05	550	60000		650	70	15000	0.01
5106-3	-63.82	Sep-05	91.5	16400	243		8950	17200	0.01
EXT-9	-160.43	Jul-13	8.6	370	1900	23	4300	3.9	0.01
5106-20	-70.82	Jan-06	472	39800		490	15.1	44500	0.01
5106-13	-54.52	Nov-05	660	27000		890		53000	0.01
5106-2	-52.42	Jan-06	26	4300	940	35	9000	450	0.01
5106-14	-61.82	Dec-05	173	13600		568		77000	0.01
WMUA-18	-61.4	Aug-06	190	41000	220	320	2600	15000	0.01
83C-130	-115.34	Jul-12	23	1100	1300	50	6800	150	0.01
PT-13A	-99.83	Nov-05	5.22	115	1650	7.12	4700		0.01
5106-14	-66.82	Dec-05		106		547		91800	0.01
Pier25-23	-71.22	Jan-06	690	43000		1000	11	19000	0.01
SP-3	-67.9	Jun-06		9	1830		3060	7.2	0.01
SP-8	-94.4	Oct-06		9.9	2200	27	590	79	0.01
5106-21	-50.42	Jan-06	45.2	782		298		90900	0.01
HYD-3	-130.61	Aug-05	984	33100		395	5800	519	0.01
5106-24	-57.02	Feb-06	273	36000		286		37700	0.01
Pier25-25	-81.42	Jan-06	23.7	926		224		86700	0.01
PT-15A	-121.82	Nov-05	4.73	71	1610	10.8	3370	7.14	0.01
PT-17	-48.96	Jun-04			2100		310		0.01
5106-20	-95.82	Jan-06	314	40100		382	18.1	24900	0.01
5106-21	-60.42	Jan-06	53.8	6200		258		74000	0.01
5106-24	-67.02	Feb-06	254	31700		229		38800	0.01
5106-27	-47.72	Apr-06	160	29000		510		36000	0.01
5106-21	-80.42	Jan-06	72.5	9240		320		66400	0.01
5106-20	-55.82	Jan-06	242	18900		317		52300	0.01
Pier25-10	-108.99	Oct-05	270	31000		1100	210	18000	0.01
PZ-SHI-1-100	-86.61	Apr-06		32000		870	910	17000	0.01
Pier25-24	-82.32	Jan-06	330	17000		370		52000	0.01
53C-130	-116.65	Jul-12		360	1700		1300	64	0.01
Pier25-24	-102.32	Jan-06	55	2000		220		74000	0.01
SP-3	-88.4	Jun-06		28.4	1400		3110		0.01

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
PT-14	-22.96	Jun-04			1600		1800		0.01
SP-3	-76.9	Jun-06	7.2	12.4	1420		2810		0.01
5106-9	-50.92	Nov-05	320	3400		930		56000	0.01
5106-21	-85.42	Jan-06	43.8	5530		120		69700	0.01
Pier25-13	-130.62	Feb-06	190	53000	0.67	300	19	130	0.01
53C-100	-84.2	Jul-12		21000	400	90	3700	4900	0.01
HYD-3	-140.61	Aug-05	230	50800		316		147	0.01
5106-25	-49.52	Apr-06	240	24000		300		37000	0.01
PT-15A	-131.82	Nov-05	6.75	156	1350	3.13	2360	7.85	0.01
C-1	-40.7	May-06		42000			340	12000	0.01
5106-1	-115.12	Sep-05	17.1	4060	913	10.2	3790	21.6	0.01
5106-24	-82.02	Feb-06		5620				62500	0.01
G	-142.62	Jul-13	130	26000		1300	160	6600	0.01
EA-1	-41.32	Sep-05	44.4	2560	246		7840	1070	0.01
5106-20	-50.82	Jan-06	199	2370		2590		14200	0.01
BH-71	-87.9	Aug-06		25000		1100	110	12000	0.01
5106-24	-77.02	Feb-06		20900				38200	0.01
Pier25-26	-77.02	Jan-06	23	1100		290		59000	0.01
PT-13A	-49.73	Nov-05			1510				0.01
HYD-4	-78.62	Sep-05	13.9	353	652	5.5	5080	11.7	0.01
EA-1	-26.32	Sep-05	41.3	23000	502	40	582	2970	0.01
Pier25-11	-77.7	Oct-05	271	25600		283		19100	0.01
5106-20	-65.82	Jan-06	176	14800		116		37500	0.01
EXT-9	-170.43	Jul-13	8	220	1100	16	1900	5.7	0.01
H-01	-171.59	Jun-13	30	1900	700	100	3400	1100	0.01
Pier25-17	-109.02	Nov-05	730	22000	0.41	610	1000	7400	0.01
PT-13A	-109.83	Nov-05		25.4	1200		1120		0.01
5106-21	-55.42	Jan-06		45.6		55		57800	0.01
5106-26	-27.92	Feb-06	540	27000		580	1	8400	0.01
5106-26	-52.92	Feb-06	260	30000		340	3.2	8400	0.01
Pier25-8	-87.92	Aug-05	258	25300		596		7030	0.01
77C-130	-114.27	Jul-12		18000	70	390	700	14000	0.01
53-25	-10.1	May-06	49	12000	310	58	2800	3800	0.01
5106-13	-104.52	Nov-05	12		8.3	120	280	49000	0.01
Pier25-22	-69.92	Jan-06	200	15000		680	2.3	18000	0.01
5106-14	-71.82	Dec-05	191	22500		383		13500	0.01
Pier25-20	-67.72	Dec-05	170	14000		270	1.3	25000	0.01
5106-27	-38.72	Apr-06	290	25000		140		12000	0.01
SP-4	-32.9	Jun-06		157	694		774	12400	0.01
SP-7	-37.9	Jun-06	20	14000	75	92	3300	260	0.01
90C-75	-52.25	Sep-13	11	17000		40	7	23000	0.01
SB-B-DEEP	-162.45	Aug-13	29	1900	550	38	2800	520	0.01
5106-9	-115.92	Nov-05		23000		550		4400	0.01
5106-20	-60.82	Jan-06	65.7	8310		44.2		33500	0.01
5106-26	-22.92	Feb-06	290	22000		130		12000	0.01
5106-13	-109.52	Nov-05	73	27000	1.6	170	48	4600	0.01
83C-75	-60.38	Jul-12		2700	770		620	4000	0.01
Pier25-27	-55.72	Jan-06	212	16400		455		11700	0.00
5106-10	-76.72	Nov-05	140	10000	95	130	2500	3700	0.00
PT-14	-40.96	Jun-04			870		490		0.00
5106-9	-75.92	Nov-05	140	14000		150	1.5	17000	0.00
SP-7	-12.9	Jun-06	8.1	380	470		2700		0.00
EA-1	-91.32	Sep-05	3.54	49.7	693	23.4	1250	84.8	0.00
83C-160	-154.98	Jul-12	6	700	660	6.5	1300	100	0.00
SP-1	-87.9	Jun-06	10.1	1420	439	63.6	1790	3740	0.00

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KUEPER-DAVIES CALCULATION 6
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
5106-5	-58.92	Sep-05		641	346		3230	24.4	0.00
SP-3	-47.9	Jun-06		21.2	594		1810		0.00
5106-24	-87.02	Feb-06						36900	0.00
5106-24	-47.02	Feb-06	198			248		31000	0.00
PT-15	-68.38	Jun-04			840		85		0.00
Pier25-17	-129.02	Nov-05	82	4400		180	61	26000	0.00
5106-21	-90.42	Jan-06		15.6		30.3		35500	0.00
SP-6	3.1	Jun-06		8.3	790		220	11	0.00
Pier25-22	-59.92	Jan-06	51	2400		140		29000	0.00
EA-1	-56.32	Sep-05	43.9	19000		100		6560	0.00
PZ-SHI-2-100	-86.14	Aug-12		180	370		2700		0.00
SB-B-DEEP	-172.45	Aug-13	13	3800	170	47	2900	240	0.00
94C-130	-114.51	Sep-13	49	12000	84	46	1400	2700	0.00
D-2	-41.4	May-06		3900	170	220	140	15000	0.00
5106-13	-119.52	Nov-05	54	17000	0.61	88	41	7100	0.00
PT-12	-81.51	Jun-04			200		3200		0.00
5106-25	-29.52	Apr-06	93	2500		83		25000	0.00
5106-25	-19.52	Apr-06	130	6700		83	0.84	19000	0.00
5106-5	-53.92	Sep-05		599	136		3390	163	0.00
Pier25-8	-97.92	Aug-05	109	12500		370		5170	0.00
Pier25-13	-90.62	Feb-06	68	2800	180	62	2100	1500	0.00
5106-25	-39.52	Apr-06		600		56		27000	0.00
T1-50	-35.35	Apr-06		150			73	28000	0.00
5106-20	-105.82	Jan-06	6.75	1560		89.4		23900	0.00
Dock2-8	-79.12	Aug-05		15800		286			0.00
Pier25-23	-61.22	Jan-06	160	9000		220		8800	0.00
5106-1	-120.12	Sep-05		13300	116	12.1	361	65.6	0.00
A-2A	-96.2	May-06	43	5600	140	260	830	1400	0.00
C-3	-40	May-06		12000		290		2700	0.00
5106-9	-110.92	Nov-05		12000		290		690	0.00
Pier25-28	-34.92	Jan-06	88.4	4240		167		12900	0.00
H-01	-101.59	Jun-13	6	1300		280		15000	0.00
EA-2	-39.82	Oct-05	59.4	14900		57.6	35.6	83.4	0.00
HYD-1	-138.12	Sep-05	57.9	7010	31.1	86.3	1280	378	0.00
EXT-9	-180.43	Jul-13	4.7	140	350	8.8	960	3.2	0.00
5106-2	-126.42	Jan-06	5.2	15000		48		90	0.00
SP-1	-23.9	Jun-06		1690	346	8.8	356	1470	0.00
SP-7	-67.9	Jul-06	7.38	2700	150	22	1500	88	0.00
5106-10	-66.72	Nov-05		2400				17000	0.00
5106-20	-100.82	Jan-06	14.4	3320		29		15000	0.00
Pier25-26	-87.02	Jan-06		53		0.69		20000	0.00
WMUA-13	-3.9	Aug-06	12	4600	180	180	270	38	0.00
B-4	-41.3	May-06		3700		100	48	12000	0.00
5106-23	-52.42	Feb-06	36.7	4170		96.3		11500	0.00
Pier25-27	-45.72	Jan-06	76.1	5680		82		9520	0.00
PT-15A	-181.82	Nov-05	0.218	27.9	393	0.131	339	7.4	0.00
SP-5	1.1	Jun-06	0.96	26	410	2.4	160	200	0.00
EA-2	-9.82	Oct-05	0.806	550	349	2.92	40.4	2830	0.00
Pier25-2	-129.02	Jul-05	41.6	8240		249	42.6	2120	0.00
Pier25-26	-67.02	Jan-06	30	1800		47		15000	0.00
Pier25-18	-124.32	Dec-05	4.4	170	11	39	270	15000	0.00
EA-2	-44.82	Oct-05	62.3	9820	74.5	32.5	84.9	45	0.00
13-49	-32.9	Apr-06		82				18000	0.00
5106-10	-61.72	Nov-05		2600		130		12000	0.00
SP-8	-37.9	Jul-06		786				16900	0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
78C-100	-85.93	Jul-12		940		95		14000	0.00
HYD-1	-98.12	Sep-05		11800					0.00
SP-8	-77.9	Jul-06		40	34		47	14100	0.00
HYD-2	-103.62	Aug-05		593	55.6	25.1	1680	125	0.00
PT-16	-69.5	Jun-04			340		75		0.00
94C-160	-154.83	Jul-12	5	120	220	4.5	750	12	0.00
F-Deep	-162.33	Sep-13	18	15	180	3.7	1000	12	0.00
EXT-9	-190.43	Jul-13	1.9	81	220	4.9	710	1.4	0.00
SP-7	-22.9	Jun-06	5.6	3800	110	8.9	610	130	0.00
5106-24	-72.02	Feb-06						14100	0.00
SP-7	-47.9	Jul-06	44	2500	140	8	600	44	0.00
GP-5	-88.4	Apr-04	3.7	950		20		12000	0.00
EA-2	-29.82	Oct-05	18.2	7530	20	17.2	9.95	1710	0.00
5106-2	-146.42	Jan-06	5.9	310	110	2.2	1100	180	0.00
Pier25-24	-72.32	Jan-06	22	3200		21		7600	0.00
EA-1	-101.32	Oct-05	6.64	180	88.4	5.03	1200	11.2	0.00
5106-6	-58.42	Oct-05	20	2400		13	1200	87	0.00
PT-12	-62.01	Jun-04			230		280		0.00
40-100R	-82.68	Aug-12		5000		190		970	0.00
14-50R	-37.6	Aug-12	38	7400				1200	0.00
F-Deep	-156.83	Jul-13	14	14	110	2.3	840	300	0.00
Pier25-19	-97.02	Dec-05	60.3	4060		74.5		3580	0.00
5106-9	-105.92	Nov-05		3700			830		0.00
HYD-2	-93.62	Aug-05	15	2200		75.6	874	188	0.00
94C-75	-59.82	Sep-13	16	3300	11	65	20	3500	0.00
Pier25-30	-75.62	Jan-06	20.5	3070		41		4790	0.00
HYD-4	-118.62	Sep-05		6780		26.9		19.6	0.00
PZ-8	-49.9717	Jul-04					150	8800	0.00
90C-50	-34.26	Jul-12		280	170	7	180	700	0.00
F-Deep	-126.83	Jul-13		39				9600	0.00
5106-14	-76.82	Dec-05	8.1	970		120	0.538	5850	0.00
Pier25-23	-51.22	Jan-06		4.6		18		8900	0.00
SP-8	-12.9	Jul-06			17.2	27.2	8.8	7670	0.00
11-75	-60.65	Aug-12		1700		65	28	5200	0.00
Pier25-30	-55.62	Jan-06	7.99	631		3.78		7780	0.00
WW-A1R	-125.5	Aug-12	31	2300		33	630	430	0.00
5106-21	-95.42	Jan-06		30				8600	0.00
5106-5	-68.92	Sep-05		415	3.41		1140	6.48	0.00
89C-25	-10.43	Aug-12	7.5	1200		310	12	660	0.00
41C-130	-96.71	Aug-12		290				8000	0.00
Pier25-15	-77.72	Nov-05	6.2	210		24	0.52	7600	0.00
PT-13A	-149.83	Nov-05	0.605	55	132	0.498	345	95.7	0.00
H-01	-161.59	Jun-13	2.5	160	99	5.8	500	100	0.00
T6-25	-10	Apr-06		960		71	69	4800	0.00
12-100	-88.28	Aug-12				90		6200	0.00
Pier25-6	-89.02	Aug-05						7690	0.00
5106-21	-105.42	Jan-06	2.42	1510		2.82		5520	0.00
G	-162.62	Jul-13	6.6	3400	1.4	100	110	150	0.00
61C-100	-84.71	Jul-12		620		140	230	2300	0.00
PT-13A	-119.83	Nov-05		2.92	148		136	2.64	0.00
34-25R	-10.18	Aug-12	15	840		290		56	0.00
90C-25	-9.22	Jul-12	10	170	40	40	120	3200	0.00
Pier25-20	-57.72	Dec-05		36		3.4		6600	0.00
709-MW20-15	0.86	Aug-12	0.7	26	150	0.7	27	1.6	0.00
EA-1	-21.32	Sep-05		2170		23.2	15.4	3040	0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
EA-1	-86.32	Sep-05	1.78	112	60.6	0.905	515	210	0.00
PT-16	-89.5	Jun-04			140		75		0.00
34-50	-35.7	Apr-06		570		220		1400	0.00
Pier25-19	-117.02	Dec-05	25.9	2220		34.2	47.6	2250	0.00
40A-100	-86.4	Dec-08	0.92	210		66		4800	0.00
32-50R	-35.3	Aug-12		760		90		3500	0.00
EA-2	-119.82	Oct-05		312	135		8.04	30.3	0.00
24-35	-20.3	Aug-12		3400		61		410	0.00
53C-25	-9.76	Jul-12	9	2200	23	23	140	670	0.00
5106-23	-47.42	Feb-06		715		69.8		3700	0.00
1-45	-28.82	Apr-06		15	21	21	28	4500	0.00
Dock2-1	-73.72	Jul-05		3990		12.9		198	0.00
5106-1	-125.12	Sep-05	3.1	4010		7.58	13.4	73.3	0.00
5106-23	-42.42	Feb-06		120				5510	0.00
5106-9	-120.92	Nov-05		3000		58		290	0.00
83C-25	-10.46	Jul-12		280	110	0.9	58	4	0.00
709-MW1-15	1.67	Mar-04		27	120	4.7	35		0.00
SP-8	-104.4	Oct-06		2	120		12		0.00
5106-21	-100.42	Jan-06		282		1.15		4690	0.00
HYD-2	-83.62	Aug-05	13.6	1300		57.3		2060	0.00
Pier25-20	-87.72	Dec-05	23	1900		52	0.67	1300	0.00
EA-2	-19.82	Oct-05	0.166	23.4	105	0.665	11.4	116	0.00
EA-1	-111.32	Oct-05	0.566	86.4	79.6	0.262	160	1.34	0.00
5106-13	-114.52	Nov-05	6.8	1600	3.3	14	100	1300	0.00
SP-3	3.1	Jun-06		2.23	98.6		29.7	2	0.00
EA-1	-71.32	Sep-05	6.06	963		8.18	76.7	2220	0.00
HYD-4	-88.62	Sep-05	0.9	111	58.9		226	3.83	0.00
5106-2	-156.42	Jan-06		43	54		260	21	0.00
EA-2	-34.82	Oct-05	4.84	1360	40.2	15.4	10.5	190	0.00
PT-15A	-161.82	Nov-05		6.35	83.8		73.4	1.05	0.00
721-GP5	-3.4	Jun-04		300	80		32	16	0.00
5106-14	-86.82	Dec-05		66.5		43.4		3060	0.00
94C-50	-34.94	Jul-12	1.5	47	65	2.2	150	33	0.00
EA-2	-49.82	Oct-05	7.92	2470	5.23	2.98	26.8	39.7	0.00
SP-7	-77.9	Jul-06	2.8	530	32	5.3	240	27	0.00
EA-2	-64.82	Oct-05		331				3180	0.00
F-Deep	-116.83	Jul-13		6.7				3600	0.00
Dock2-1	-78.72	Jul-05		427		13.9		2710	0.00
SP-8	-22.9	Jul-06		8.26	42.2	25.2	25.8	1060	0.00
5106-10	-81.72	Nov-05	10	1700		12	57	530	0.00
Pier25-13	-60.62	Feb-06	9.9	420		20	21	2300	0.00
Pier25-19	-67.02	Dec-05		40.2		6.36		3250	0.00
5106-25	-69.52	Apr-06		1200				1700	0.00
F-Intermediate	-126.35	Sep-13		2.1			2.2	3300	0.00
721-GP6	-3.4	Jun-04		72	59	1.8	96	2.8	0.00
SP-5	-98.4	Jul-06			74		21		0.00
WW-A1R	-135.5	Aug-12	8	820	5.5	12	210	200	0.00
Pier25-10	-128.99	Oct-05	10	1300		42	11	530	0.00
35-25	-10.6	Aug-12	4.3	190		150		23	0.00
EA-1	-106.32	Oct-05	0.49	20.7	44.5	0.766	176	1.43	0.00
5106-14	-106.82	Dec-05						3100	0.00
Pier25-28	-24.92	Jan-06		21				3030	0.00
SP-2	-22.9	Jul-06	3.2	1100	13	2.9	96	230	0.00
EA-1	-66.32	Sep-05		39.7		4.81	5.16	2800	0.00
G	-122.62	Jul-13		9.2		2		2900	0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
5106-25	-59.52	Apr-06	5.5	650		5.1		1800	0.00
EA-2	-69.82	Oct-05	0.79	379	50.4	0.757	8.02	45.7	0.00
HYD-2	-143.62	Aug-05	7.48	608	5.09	7.58	221	16.9	0.00
77C-50	-41.72	Jul-12	1.6	240	15	16	190	120	0.00
Pier25-16	-117.72	Nov-05	2.73	472		9.45		1870	0.00
77C-100	-84.25	Jul-12		570	19	10	130	26	0.00
5106-10	-121.72	Nov-05	7.4	970	1.7	12	59	610	0.00
G	-182.62	Jul-13	4	830	1.3	45	45	170	0.00
Pier25-8	-107.92	Aug-05	9.16	1050		32.4		459	0.00
EA-1	-61.32	Sep-05		43.8		2.45	4.93	2130	0.00
709-MW8-15	1.74	Aug-12	0.27	5.4	45	6.6	24	0.87	0.00
A-6	-40.4	May-06		260		6.8	11	1600	0.00
Pier25-10	-118.99	Oct-05	8.4	880		29	8.7	300	0.00
Pier25-18	-134.32	Dec-05	3.6	190	5.7	4.5	190	240	0.00
709-MW6-15	2.55	Aug-12		7.1	46	6.1	4	0.87	0.00
Pier25-13	-150.62	Feb-06	1.9	120	12	1.5	200	11	0.00
PT-13A	-169.83	Nov-05	0.147	8.42	38.4	0.0885	60.1	21.4	0.00
NL-17	-17.82	Mar-06		170	32	10	35	46	0.00
5106-3	-78.82	Sep-05	5	1350	2.6		11.9		0.00
5106-5	-73.92	Sep-05		35.1	3.76		268		0.00
A-5	-42.6	May-06	4.1	930		23	1.9	250	0.00
SP-1	1.1	Jun-06		0.85	45.1		9.82		0.00
709-MW18-25	-10.3	Jul-12	3	810		39	4.8	66	0.00
721-GP8	-3.4	Jun-04		100	32		56	29	0.00
5106-6	-63.42	Oct-05	4.8	860		5.7	80	40	0.00
Dock2-9	-53.02	Sep-05		1310		3.5		9.64	0.00
NL-17	-14.82	Mar-06		120	28	10	36	52	0.00
709-MW5-15	1.6	Jul-12		0.38	42		2.4		0.00
Pier25-23	-91.22	Jan-06	13	660		20		430	0.00
90C-100	-84.25	Jul-12		770	5		17	380	0.00
EA-2	-94.82	Oct-05	0.291	242	31.4	0.451	7.86	19.8	0.00
Pier25-6	-119.02	Aug-05	5.15	738		24.8	8.14	166	0.00
5106-20	-110.82	Jan-06	1.58	249		4.7	0.65	1230	0.00
G	-197.62	Jul-13	1.1	720	2.8	19	21	38	0.00
SP-8	0.1	Jul-06	1.5	134	20.3	2.84	43.4	214	0.00
EA-1	-51.32	Sep-05	0.354	110	19.6	0.565	82.7	46.6	0.00
11-25	-10.18	Aug-12		140		13	8.5	1100	0.00
5106-20	-130.82	Jan-06	3.05	258	0.236	8.14	0.354	1050	0.00
721-GP1	-3.4	Jun-04		22	26	14	22	6.3	0.00
77C-75	-59.12	Jul-12		150	13	7.8	78	91	0.00
5106-24	-17.02	Feb-06	0.212			76.1		55.4	0.00
14-25R	-10.7	Aug-12		310				1100	0.00
SP-1	-77.9	Jun-06		10.6	26.2		37.2	49.2	0.00
WMUA-18	-2.4	Aug-06	0.32	16	4	8.1	10	1000	0.00
5106-27	-27.72	Apr-06	5.1	740				370	0.00
NL-13	-9.62	Dec-05	0.0795	15.2	30.1	0.253	7.02	7.73	0.00
T1-25	-10.28	Apr-06	0.17	21	28	0.95	16	13	0.00
5106-3	-68.82	Sep-05	2.01	220	4.44	1.02	67.8	376	0.00
5106-13	-49.52	Nov-05		3.8		2.4		1300	0.00
A-4	-42.5	May-06	0.68	90	0.6	16	10	820	0.00
Pier25-2	-99.02	Jul-05	0.703	78.8		9.91		1030	0.00
EA-2	-129.82	Oct-05		2.64	30.3		1.46	1.37	0.00
5106-13	-124.52	Nov-05	8.2	800			22		0.00
41-138	-113.63	Apr-06		190		10		820	0.00
5106-24	-92.02	Feb-06		64.6				1180	0.00

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KUEPER-DAVIES CALCULATION 6
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
EXT-9-Deep	-186.92	Sep-13	0.22	9.5	20	0.48	54	0.37	0.00
709-MW19-15	1.39	Jul-12		0.22	28		6.6		0.00
65-15	-1.03	Jul-04		53	18		53	24	0.00
HYD-1	-148.12	Sep-05	2.59	197	2.79	3.73	108	13.2	0.00
5106-26	-57.92	Feb-06	4	280		3.6	0.38	720	0.00
5106-5	-78.92	Sep-05		31.6			165		0.00
Pier25-25	-111.42	Jan-06	2.36	253		6.86	0.303	684	0.00
Pier25-13	-140.62	Feb-06	1.9	160	3.8	1.1	110	7.8	0.00
SP-7	-57.9	Jul-06		82	14	1.1	63	6.8	0.00
SP-2	-12.9	Jul-06	2.6	58	11	0.59	86	2.4	0.00
NL-14	-18.92	Dec-05	0.0995	26.2	18.7	2.71	39.5	4.17	0.00
SP-8	-67.9	Jul-06		23.6	14.2	1.24	17.9	372	0.00
HYD-5	-62.29	Oct-05	0.71	330				630	0.00
709-MW15A-25	-16.05	Mar-04		2.5	21		23		0.00
6A-24.5	-10.4	Mar-04			21	4.1	9.2	9.1	0.00
PZ-9	-49.1335	Jul-04					130	150	0.00
NL-15	-12.62	Dec-05	0.138	22	17.3	5.04	23.1	7.29	0.00
Pier25-18	-54.32	Dec-05	2.4	21		8.4		830	0.00
34-50R	-34.42	Aug-12		23		36		290	0.00
5106-10	-101.72	Nov-05		730				15	0.00
NL-13	-12.62	Dec-05	0.135	11.9	21	0.532	11	2.12	0.00
WW-A1R	-146.5	Aug-12	2.1	330		3.9	59	56	0.00
77-140	-128.72	Apr-06	0.95	130		15	51	150	0.00
34-25	-11.7	Dec-08		130		39	1.3	13	0.00
EA-1	-46.32	Sep-05		382			4.2	403	0.00
PT-13A	-129.83	Nov-05		1.09	19.6		16.1	2.05	0.00
HYD-1	-158.12	Sep-05	1.46	129	4.82	2.59	72.6	10.8	0.00
NL-14	-21.92	Dec-05	0.101	22.3	12.2	4.1	45.5	3.74	0.00
19-50R	-36.3	Apr-06		540			3.3	180	0.00
721-GP4	-3.4	Jun-04		9.1	18	1	17		0.00
PZ-1	-45.0703	Jul-04		150				700	0.00
NL-14	-27.92	Dec-05	0.101	18.1	12.1	5.56	36.3	4.73	0.00
PT-17	-68.96	Jun-04			21				0.00
NL-14	-15.92	Dec-05	0.0975	34.1	13.8	2.34	30.1	5.52	0.00
709-MW14-15	0.48	Mar-04		71	9.9	4	41		0.00
721-GP7	-3.4	Jun-04		7.2	17		19		0.00
NL-15	-15.62	Dec-05	0.115	18.8	11.5	5.59	33.3	4.53	0.00
NL-13	-18.62	Dec-05	1.42	12.1	16.1	1.79	16.4	2.35	0.00
SP-8	-87.9	Jul-06		11.3	14.2		17.2	112	0.00
Pier25-12	-67.52	Feb-06	0.532	9.33	10.6	0.25	54	1.2	0.00
709-MW4-15	1.6	Jul-12		0.16	19		2.1		0.00
5106-14	-91.82	Dec-05	0.68	156		11.4		380	0.00
709-MW20-25	-8.97	Aug-12	0.65	55	15	2.6	6.2	4.8	0.00
NL-23	-21.82	Aug-06	0.57	150	5.1	10	24	31	0.00
Pier25-15	-63.12	Dec-05	1.3	88		1.42		657	0.00
5106-14	-56.82	Dec-05	0.334	5.26	0.151	40.2	1.1	0.922	0.00
SP-2	-47.9	Jul-06		81	7	7.8	21	98	0.00
NL-15	-18.62	Dec-05	0.125	16.7	10.5	3.92	36.8	2.82	0.00
G	-212.62	Jul-13	0.48	290	2.4	9.3	14	22	0.00
Pier25-16	-127.72	Nov-05	1.1	95.7	1.14	4.57	0.265	525	0.00
NL-17	-11.82	Mar-06		76	12	2.6	18	5.1	0.00
Dock2-1	-63.72	Jul-05		524		2.05		30.7	0.00
HYD-4	-138.62	Sep-05		2.22	11.5		42.3		0.00
5106-25	-79.52	Apr-06		350				300	0.00
PT-18	-45.96	Jun-04			17		7.5		0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
709-MW2-15	3.44	Jul-12	0.19	2.6	15	2.4	11		0.00
5106-14	-46.82	Dec-05	0.842	10.9		2.05		707	0.00
61-100	-83.86	Dec-08		2.4		24		290	0.00
NL-13	-15.62	Dec-05		13.4	14.8	1.57	10.7	3.69	0.00
1-25	-9.4	May-06	0.2	24	13	2.2	13	23	0.00
PT-15A	-141.82	Nov-05		2	15.7		9.25	0.464	0.00
NL-24	-33.71	Jan-07		37	9.5	2.8	32	3.6	0.00
EA-2	-124.82	Oct-05		0.992	16.9		1.07	0.672	0.00
5106-27	-57.72	Apr-06	3.3	350		3.5		170	0.00
Pier25-11	-87.7	Oct-05	2.76	270		4.52		251	0.00
5106-14	-111.82	Dec-05		20.4				691	0.00
A-3	-41.3	May-06	1.1	190		6.6		320	0.00
G	-172.62	Jul-13	0.79	220	1.1	11	17	28	0.00
48-15	0.6	Aug-12		0.2	16	0.08	3.7		0.00
SP-2	-32.9	Jul-06		29	11	0.19	28	3.4	0.00
5106-26	-72.92	Feb-06	2.9	330		3.3		160	0.00
Pier25-24	-112.32	Jan-06		35		2.4		590	0.00
PZ-SHI-1-33	-20.89	Apr-06	2.3	390		5.7	1.2	21	0.00
PT-18	-47.96	Jun-04			15		6		0.00
HC-N12342526-8	-1.35	Nov-11		14			4.7	630	0.00
PZ-SHI-3-42	-28.78	Apr-06		140	4.5	3.7		220	0.00
Pier25-19	-127.02	Dec-05	3.3	286	0.098	5.05	0.557	163	0.00
5106-10	-86.72	Nov-05		43			2.4	590	0.00
SP-8	-7.9	Jul-06		8.75	7.38	7.74	11.4	104	0.00
SP-2	-37.9	Jul-06		69	8	1.4	20	59	0.00
5106-19	-66.42	Jan-06	0.0625	1.24		7.77	2.33	481	0.00
5106-14	-81.82	Dec-05	0.266	36.4		7.36		436	0.00
NL-17	-8.82	Mar-06		64	9.3	1.8	15	3.9	0.00
21C-25	-7.71	Jul-12	0.3	56	4.4	5.6	25	70	0.00
89C-50	-34.77	Aug-12	0.09	1.1	0.25	30	2	0.93	0.00
5106-10	-136.72	Nov-05		200		2.4	21	140	0.00
5106-14	-96.82	Dec-05	0.235	53	0.128	3.32		454	0.00
PT-15A	-151.82	Nov-05		1.28	12.4		8.71	0.388	0.00
B-3	-41.7	May-06	0.27	12		21	0.15	150	0.00
5106-2	-136.42	Jan-06	1.6	220		2		230	0.00
PZ-4	-32.3961	Jul-04					83	4.4	0.00
EA-2	-24.82	Oct-05	0.204	14.4	7.9	3.55	5.63	108	0.00
F-Deep	-56.83	Jul-13		1.8	13	0.09	1.8	0.42	0.00
EA-2	-104.82	Oct-05		12.9	12.8		0.692	1.97	0.00
F-Deep	-136.83	Jul-13		17	0.95		1.7	490	0.00
Pier25-23	-41.22	Jan-06		1.6				560	0.00
52-15	1.8	Aug-12		1.3	11	0.09	12		0.00
4-115R	-101.1	Apr-06	0.47	63	6.9		24	4.6	0.00
Pier25-13	-50.62	Feb-06			4.3	9	19	62	0.00
50-15	0.4	Aug-12		0.33	12	0.11	4.7		0.00
SP-2	-7.9	Jul-06	1.7	200	3.1		19	2	0.00
PT-15A	-171.82	Nov-05		0.315	11.9		5.27		0.00
Pier25-9	-88.92	Oct-05		1	8.9		23		0.00
PT-10	-59.21	Jun-04			12		3.8		0.00
Pier25-30	-65.62	Jan-06		2.85				534	0.00
51-15	2.7	Mar-04			12		3.6		0.00
73-25	-12.5	Apr-06		98		3.7	3	310	0.00
5106-24	-97.02	Feb-06		30				496	0.00
NL-24	-38.71	Jan-07		29	6.7	3.9	18	1.8	0.00
Pier25-26	-57.02	Jan-06		28				480	0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
Dock2-9	-58.02	Sep-05		357		0.979			0.00
HYD-1	-168.12	Sep-05	0.778	71.7	2.31	1.38	38.5	7.21	0.00
61C-75	-59.6	Jul-12	0.21	44	1.1	6.5	31	35	0.00
89C-100	-84.88	Aug-12	0.27	54	8.4	1.2	1.9	10	0.00
5106-24	-102.02	Feb-06	0.253	99.7	0.175	1.23	1.59	300	0.00
Pier25-9	-128.92	Oct-05		1.2	8.3		17		0.00
12A-50	-33.2	Aug-12			11		0.4		0.00
721-MW7-15	-1.31	Aug-12	0.28	11	3.8	11	11	2.9	0.00
Pier25-27	-65.72	Jan-06	2.21	191		3.85		122	0.00
5106-10	-106.72	Nov-05		180		2.2	11	99	0.00
5106-20	-115.82	Jan-06	0.862	98	0.117	2.36	0.27	271	0.00
HYD-6	-51.81	Sep-05		2.72	0.056	17.3	1.24	99.5	0.00
HYD-4	-148.62	Sep-05	0.0885	9.37	5.18		30.7	4.08	0.00
5106-1	-130.12	Sep-05	0.362	150	1.63	0.702	20.9	14.6	0.00
5106-10	-166.72	Nov-05		140		2	20	80	0.00
61C-50	-34.6	Jul-12	0.22	30	1.9	3.5	34	23	0.00
EA-2	-89.82	Oct-05	0.894	18.3	0.976	1.22	50.9	2.4	0.00
5106-1	-145.12	Sep-05	0.323	30.5	2.38	0.301	41.8	6.69	0.00
709-MW3-15	1.6	Mar-04			9.6		4.2		0.00
HC-N12342526-7	-1.53	Nov-11		15		9.7	3.3	200	0.00
Pier25-22	-79.92	Jan-06		180		5.4		79	0.00
EA-3	-34.82	Oct-05		270			2.4	44	0.00
PT-13A	-139.83	Nov-05		1.28	8.32		10	1.77	0.00
5106-21	-110.42	Jan-06	0.558	73.5	0.0645	1.29	0.0715	292	0.00
5106-19	-76.42	Jan-06		4.16		9.11	0.782	227	0.00
5106-20	-45.82	Jan-06	0.453			21.1			0.00
Pier25-10	-78.99	Oct-05						410	0.00
721-GP6	-38.4	Jun-04		9.1		8.8		220	0.00
65-50	-36.04	Aug-12		110		2.1	30	1.4	0.00
53C-160	-162.27	Jul-12		7.7	7.1	0.08	12	1.5	0.00
SP-2	-87.9	Jul-06		85	3.3	1.6	8.4	43	0.00
SP-5	-108.4	Aug-06			8.6		3.2		0.00
G-Intermediate	-158.11	Sep-13	0.6	97	0.36	7.3	10	27	0.00
11-100	-83.5	Sep-13		89	5.4		0.13	34	0.00
Dock2-1	-68.72	Jul-05		184		3.2		63.5	0.00
5106-10	-46.72	Nov-05		1.4			0.79	370	0.00
SP-4	1.1	Jun-06		6.89	6.89	0.23	7.83	10.5	0.00
5106-10	-131.72	Nov-05		130			12	110	0.00
G	-82.62	Jul-13		1.6	6.3	0.09	14		0.00
5106-3	-74.82	Sep-05	0.26	49.6	2.05	0.342	17.7	80.6	0.00
HYD-4	-168.62	Sep-05		12.2	3.57		26.8	3.58	0.00
Pier25-30	-35.62	Jan-06		2.85		2.58		299	0.00
WMUL-01	-3.14	Jun-12	0.2	24	1.5	3.9	25	0.21	0.00
Pier25-2	-139.02	Jul-05	0.887	158		3.7	1.34	43.3	0.00
10-50	-37.4	Aug-12		14		2.2		280	0.00
5106-5	-88.92	Sep-05		8.01	0.285		45.9	0.217	0.00
Pier25-16	-147.72	Nov-05	0.943	126	0.134	2.79	0.588	94.1	0.00
SP-2	-57.9	Jul-06		36	3.2	1.8	11	24	0.00
78C-75	-60.03	Jul-12		4.8				310	0.00
Pier25-23	-101.22	Jan-06		130		4		56	0.00
HYD-4	-98.62	Sep-05	0.82	2.39	5.18		12.1		0.00
Pier25-20	-97.72	Dec-05	1.2	130	0.15	3.4		55	0.00
Pier25-7	-99.02	Aug-05		0.323				305	0.00
NL-15	-21.62	Dec-05	0.0545	7.89	4.25	2.17	9.74	2.31	0.00
PT-11	-57.21	Jun-04			3.9		20		0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	2060000	4520000	12800000	
24-15	0.87	Aug-12		9.7	4.9	0.47	7.3	17	0.00
SP-2	-67.9	Jul-06		38	3.1	1.5	8.6	21	0.00
5106-24	-42.02	Feb-06	0.83	25.8		12.5	0.88		0.00
SP-7	2.1	Jun-06			6.6				0.00
B-2	-41.4	May-06	0.7	46		10	0.29	8	0.00
5106-21	-115.42	Jan-06	0.39	59.1		0.948		169	0.00
15-25R	-11.7	Apr-06	0.49	9.2	0.1	9.1	2.3	56	0.00
Dock2-11	-80.32	Oct-05		150		2.8		2.8	0.00
Pier25-13	-160.62	Feb-06		34			29	1.8	0.00
EA-2	-54.82	Oct-05	0.385	164	0.153	0.278		3.42	0.00
5106-5	-123.92	Sep-05		5.46	0.542		30.6	0.218	0.00
HYD-4	-108.62	Sep-05		36.4	3.18		7.63	1.49	0.00
709-MW18-15	1.6	Jul-12	0.17	63	1.8	1.2	7.1	0.11	0.00
SP-2	-77.9	Jul-06		77	1.2	0.91	3.9	34	0.00
C-5	-40.7	May-06	0.095	4.2	0.32	6.6	1.6	74	0.00
Pier25-11	-97.7	Oct-05	0.647	107		0.959	1.21	56.9	0.00
Pier25-3	-119.92	Aug-05	0.818	98.5		2.92		35.6	0.00
5106-9	-125.92	Nov-05		60		6.7	1.1	3.4	0.00
5106-9	-135.92	Nov-05		50		6.4	3.4	4.9	0.00
21C-50	-32.75	Jul-12		6.1	2.6	0.86	7.4	34	0.00
5106-5	-83.92	Sep-05		11.8			29.4		0.00
EA-1	-9.32	Sep-05		1.89	1.01	6.4	6.09	4.4	0.00
5106-10	-91.72	Nov-05		69			8.5	61	0.00
30-15	4	Mar-04			5				0.00
Pier25-9	-98.92	Oct-05		1.5	3		12		0.00
5106-14	-121.82	Dec-05	0.286	63.7		1.39		94.6	0.00
Pier25-26	-97.02	Jan-06		9.1				190	0.00
G	-209.52	Sep-13	0.15	53	0.62	2.4	5.8	15	0.00
5106-10	-116.72	Nov-05		75		1.3	4.8	40	0.00
Pier25-6	-129.02	Aug-05	0.519	86.4		2.87	1.11	16.1	0.00
22-70	-44	Apr-06		1.9	1	1.1	6.3	90	0.00
EA-2	-139.82	Oct-05		0.284	4.53		0.632		0.00
HYD-2	-153.62	Aug-05	0.294	11.3	0.301	0.188	23	0.628	0.00
Dock2-9	-73.02	Sep-05		129		0.463			0.00
EA-2	-59.82	Oct-05	0.262	126		0.165		7.7	0.00
55-25	-8.74	Aug-12		1.1	3.2	0.28	5.8	0.12	0.00
G	-152.62	Jul-13	0.34	51		4	3.9	7.1	0.00
Pier25-23	-81.22	Jan-06		16				160	0.00
SP-1	-67.9	Jun-06		127				5.1	0.00
Pier25-19	-157.02	Dec-05	0.357	52.7	0.105	1.02	0.276	74.5	0.00
5106-3	-84.82	Sep-05	0.605	118			1.43		0.00
Pier25-20	-117.22	Dec-05	0.76	64		2.4		36	0.00
721-MW8-15	-1.48	Jul-04		14	1.8		8.2	20	0.00
PT-13A	-159.83	Nov-05		0.287	3.47		3.12	0.502	0.00
5106-21	-45.42	Jan-06	0.13	4.42	0.248	0.203	0.704	144	0.00
HYD-3	-70.61	Aug-05	0.453	11.2	0.159	3.9	9.94	0.503	0.00
NL-17	-20.82	Mar-06		22	1	3.3	1.4	21	0.00
SM1	-21.32	Jun-06	0.62	62		3.5	0.56	7.3	0.00
EA-1	-116.32	Oct-05		0.233	3.14		4.61	0.0955	0.00
5106-5	-98.92	Sep-05		3.93	0.23		21.9	0.18	0.00
11-45	-27.62	Aug-12		82		1.1	0.8	26	0.00
F-Deep	-166.83	Jul-13	0.9	7.1	1.6	0.24	8.7	16	0.00
NL-24	-43.71	Jan-07	0.34	17	2	1.7	2.2	0.51	0.00
Pier25-16	-137.72	Nov-05	0.285	23.3	0.0985	0.989	0.141	101	0.00
F-Deep	-146.83	Jul-13	0.43	0.78	0.6		8.8	68	0.00

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OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
68-50	-36.17	Apr-06		70		0.57	7	1.3	0.00
G	-202.62	Jul-13	0.24	48	0.25	2.4	3.5	8.2	0.00
EA-1	-76.32	Sep-05	2.17	8.48		0.272	3.46	107	0.00
WMUL-02	-3.11	Jun-12	0.16	5	2.6	0.13	5		0.00
HYD-3	-60.61	Aug-05	0.222	12.7		6.98		0.121	0.00
25A-25	-8.1	Apr-06	0.86	9.6		5.3	3.6	9.1	0.00
HYD-7	-35.32	Aug-05		95.4			1.78	1.38	0.00
G	-72.62	Jul-13		0.88	2.4		5.7		0.00
5106-14	-101.82	Dec-05		2.64				139	0.00
NL-23	-30.82	Aug-06	0.62	28		4	1.6	11	0.00
NL-13	-24.62	Dec-05	0.165	0.516	2.3	0.552	4.23	0.241	0.00
EA-2	-84.82	Oct-05		23.8	2.4		0.307	2.01	0.00
5106-26	-67.92	Feb-06		76				34	0.00
SP-3	-118.4	Sep-06					20		0.00
CH-3	-0.4	May-06			3.2				0.00
HYD-6	-61.81	Sep-05		15.3	0.116	0.447	1.1	92.8	0.00
NL-13	-21.62	Dec-05	0.572	4.37	1.77	0.587	5.65	0.536	0.00
B-1	-42.15	May-06		0.33		0.16		130	0.00
Pier25-22	-89.92	Jan-06		24				100	0.00
721-MW9-25	-11.1	Jul-12	5.8	61		0.8	1.3	3.5	0.00
HYD-4	-158.62	Sep-05		1.41	1.81		7.7	0.591	0.00
G	-102.62	Jul-13		0.5	2.5		2.9		0.00
721-MW5-15	-1.02	Aug-12		1.6	0.17	5.9		2.3	0.00
Pier25-27	-15.72	Jan-06		1.15		0.19		121	0.00
SP-5	-118.4	Aug-06			2.8		0.82		0.00
19-25	-11.1	Dec-08			2.8		0.68		0.00
709-MW15-15	1.53	Aug-12	0.15	16	1.5	0.38	4.4		0.00
EA-3	-14.82	Oct-05		5.6	2.6		0.47		0.00
46-100	-84.2	Apr-06	0.095	31		1.4	6.3	8.3	0.00
EA-3	-9.82	Oct-05		4.2	2.7				0.00
Pier25-9	-108.92	Oct-05			2		4.9		0.00
5106-5	-103.92	Sep-05		3.17			16.6		0.00
NL-23	-24.82	Aug-06		22	0.23	1.5	0.79	43	0.00
WW-A1R	-70.5	Aug-12	0.63	30		3.7		0.46	0.00
29-14	1.5	Mar-04			2.7				0.00
5106-5	-118.92	Sep-05		3.32	0.205		14.8		0.00
SP-8	-114.4	Oct-06		7.4	2.2		1.5		0.00
721-GP5	-38.4	Jun-04		19				88	0.00
721-GP9	-3.4	Jun-04		83					0.00
SB-B-DEEP	-182.45	Aug-13		2.1	1.3	0.1	7.7	0.41	0.00
8-54	-39.5	Dec-08				5.8			0.00
5106-5	-93.92	Sep-05		3.22			15.7		0.00
Pier25-30	-85.62	Jan-06	0.178	40		0.549	0.0415	44.4	0.00
HYD-7	-55.32	Sep-05	0.2	56.4		0.854	0.455	12.4	0.00
5106-9	-130.92	Nov-05		63			2.6	5.7	0.00
Pier25-19	-57.02	Dec-05		2.55				105	0.00
21-48	-32.1	May-06		1.4		4	3	7.5	0.00
5106-24	-32.02	Feb-06	0.378					106	0.00
Pier25-28	-44.92	Jan-06	0.0985	4.8		0.219		95.6	0.00
F-Deep	-66.83	Jul-13		0.99	2.4		0.33	0.19	0.00
709-MW7-15	1.46	Jul-12		3	0.17	4.6	0.51	1.6	0.00
EA-2	-79.82	Oct-05		3.33	2.31		0.195	0.481	0.00
Pier25-15	-87.72	Nov-05		30		0.97	0.34	41	0.00
CH-3	-10.9	May-06			2.4				0.00
Pier25-13	-170.62	Feb-06		9.34	0.366		10.7	0.184	0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
HYD-1	-78.12	Aug-05						102	0.00
49-15	2.6	Aug-12		0.77	2.2		0.96	0.18	0.00
23-50	-34.9	Apr-06		1.4	0.35	0.25	11	3.7	0.00
T5-60	-44.7	Apr-06		0.36				100	0.00
NL-14	-24.92	Dec-05		2.64	0.907	1.91	2.45	3.73	0.00
5106-27	-87.72	Apr-06	0.29	36		0.85		33	0.00
F-Deep	-76.83	Jul-13		2.6	2	0.13	0.74	0.49	0.00
64-170	-161.47	Jul-12		0.32		4.9	0.11	0.41	0.00
SP-3	-138.4	Sep-06					14		0.00
5106-6	-68.42	Oct-05		37			6.2	2.6	0.00
Pier25-24	-122.32	Jan-06		12				77	0.00
NL-17	-26.82	Mar-06		17	0.16	2.3	0.32	16	0.00
NL-24	-48.71	Jan-07		15		3.2	1.4		0.00
5106-14	-51.82	Dec-05	3.2	15.8	0.141	1.38	3.4	2.57	0.00
NL-23	-27.82	Aug-06		9.9	0.34	1.9	1.1	19	0.00
Pier25-17	-139.02	Nov-05	0.34	27	0.39	0.4	2.6	8.9	0.00
11-183	-165.62	Aug-12		5.5		3.6	0.2	10	0.00
5106-13	-139.52	Nov-05		7.4	1.5		0.86	5.8	0.00
36-100R	-86.8	Aug-12	0.16	21		2.7	0.45		0.00
HYD-3	-150.61	Aug-05		7.25	0.238	0.131	9.07		0.00
5106-26	-82.92	Feb-06		46			1.6	8.8	0.00
Pier25-2	-109.02	Jul-05	0.0828	8.74	0.0601	1.02	0.289	45.3	0.00
721-MW10-50	-36.84	Aug-12		0.19		4.1		1.4	0.00
Pier25-8	-117.92	Aug-05	0.219	35.3		1.15		8.71	0.00
78C-130	-131.86	Jul-12		2.3		0.52		67	0.00
32-100	-85.2	May-06		1.3		1.7	0.18	44	0.00
NL-14	-12.92	Dec-05		2.66	1.62	0.114	0.565	0.243	0.00
NL-23	-33.82	Aug-06	0.32	16	0.21	1.3	2.4	5.2	0.00
60-25	-10.05	Apr-06		1.4	1.4	0.1	1.9	0.51	0.00
5106-5	-128.92	Sep-05		2.87			10.6		0.00
Pier25-20	-49.72	Dec-05						76	0.00
61C-25	-9.61	Jul-12	0.51	2.3	0.56	0.24	5.9	1.1	0.00
Pier25-28	-54.92	Jan-06	0.057	18.2		0.599		38.4	0.00
SM2	-18.92	Jun-06		2.5	1.2		2.8	0.72	0.00
Pier25-6	-139.02	Aug-05	0.231	29.8		0.897	1.19	5.36	0.00
Pier25-9	-118.92	Oct-05			1.2		3.1		0.00
5-50	-35.8	Aug-12		20				45	0.00
Pier25-8	-127.92	Aug-05	0.224	28.2		1.1		10.8	0.00
4-175R	-159.1	Apr-06	0.087	6	0.39	0.55	5	1.3	0.00
721-PZ-2	-10.9	Jun-04		3.1		3.4			0.00
Pier25-23	-111.22	Jan-06	0.41	32		0.87		7.8	0.00
GP-11	-38.4	Mar-04		15				48	0.00
PZ-SHI-1-75	-61.62	Apr-06		7.3		2.4	1.7	0.15	0.00
5106-26	-62.92	Feb-06		39				15	0.00
5106-10	-126.72	Nov-05		22			2.8	19	0.00
CH-5	1.1	Jun-06			1.5		0.41		0.00
Pier25-9	-78.92	Oct-05			1.2		2.2		0.00
5106-5	-108.42	Sep-05		1.85			9.22		0.00
G	-42.62	Jul-13		0.14	0.81		4.5		0.00
SP-8	-144.4	Oct-06			1.5		0.16		0.00
Dock2-9	-63.02	Sep-05		41.7		0.28	0.2		0.00
5106-24	-107.02	Feb-06		11.8	0.172		2.23	25	0.00
5106-1	-140.12	Sep-05	0.0815	8.21	0.353	0.0885	4.66	2.86	0.00
69-50	-37.6	Apr-06		38				11	0.00
T6-60	-44.9	Aug-12		3.5				58	0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
HYD-6	-141.81	Oct-05		4.31	0.5		4.94	0.686	0.00
5-25	-10.8	Aug-12	0.11	0.55	1.3		0.69		0.00
Dock2-8	-119.12	Aug-05		27.3		0.397	2.09	0.454	0.00
5106-14	-116.82	Dec-05		2.68		0.419		47.9	0.00
Pier25-26	-107.02	Jan-06		4.6				53	0.00
Dock2-8	-84.12	Aug-05		27.7		0.465	1.69		0.00
EXT-9	-60.43	Jul-13		1.9		2.8	0.15	0.18	0.00
F-Shallow-New	-84.3	Oct-13		2.6	0.58	0.14	3.8	0.35	0.00
T5-25	-9.6	Apr-06	0.2	8.6	0.2	0.15	1.7	21	0.00
5106-13	-144.52	Nov-05		4.1	0.88		1.5	2.2	0.00
NL-23	-39.82	Aug-06		13	0.29	0.72	1	4.5	0.00
65-25	-11.05	Aug-12		1.9	0.18	1.8	0.96	3.4	0.00
Pier25-24	-62.32	Jan-06						55	0.00
Pier25-29	-96.42	Feb-06		4.7			6.8	0.71	0.00
94C-25	-9.96	Jul-12		7.7	0.43	0.85	1.2	0.11	0.00
77C-25	-6.12	Jul-12		3.4	0.64	0.26	2.3	0.21	0.00
G	-112.62	Jul-13		0.16	1.1		0.79		0.00
74-100	-85.76	Aug-12	0.33	3.6		1.4	2.7	0.55	0.00
5106-10	-56.72	Nov-05				2.5	0.53		0.00
PT-11	-37.21	Jun-04					7.6		0.00
HC-N12342526-6	-1.6	Nov-11		2.8		1.4	0.3	19	0.00
34C-100	-82.3	Aug-12		12		0.79		20	0.00
36-25	-12.4	Aug-12	0.13	8.6		1.9	0.14	0.6	0.00
WMUM-01	-3.26	Jun-12		0.64	0.94	0.13	0.91		0.00
5106-20	-120.82	Jan-06	0.0725	17.6		0.23	0.074	19	0.00
SP-4	-98.4	Sep-06			1		0.78		0.00
Pier25-29	-106.42	Feb-06		2.6			6.4		0.00
NL-28	-22.72	Jan-07		0.33	0.96		0.18	3.2	0.00
34C-130	-112.09	Aug-12		8.4		1.2		10	0.00
91C-160	-155.59	Jul-12		2.5		0.15		38	0.00
5106-8	-52.02	Aug-05		5.22	0.709		0.915		0.00
NL-23	-36.82	Aug-06		12		0.74	0.64	8.4	0.00
5106-26	-77.92	Feb-06		23				12	0.00
HYD-7	-45.32	Sep-05		26.3	0.0596		0.673		0.00
5106-23	-10.42	Feb-06		4.78	0.306		3.13	1.68	0.00
H-01	-91.59	Jun-13	0.18	4.8		1.8		0.15	0.00
5106-19	-46.42	Jan-06	0.194	1.64		1.98		0.284	0.00
Pier25-17	-60.82	Dec-05	0.0885	1.14		0.868		22.2	0.00
21C-75	-57.73	Jul-12		0.41			0.31	38	0.00
721-MW5-25	-11.03	Aug-12		8		0.85	1.5	2.8	0.00
709-MW16-15	0.6	Jul-12		0.43	0.45	0.33	2		0.00
Pier25-22	-99.92	Jan-06		11				24	0.00
G	-52.62	Jul-13		0.11	0.57		2.1		0.00
EA-3	-124.82	Nov-05			0.91				0.00
5106-1	-135.12	Sep-05	0.0615	6.99	0.156	0.083	2.64	2.05	0.00
WMUM-02	-3.14	Jun-12		1.8	0.68	0.08	0.72		0.00
Pier25-2	-169.02	Aug-05		10.3		0.278	2.31	2.56	0.00
91C-130	-114.18	Jul-12		3.4		0.13		30	0.00
Dock2-1	-55.22	Jul-05		26.8					0.00
5106-24	-22.02	Feb-06				1.87			0.00
Pier25-8	-157.92	Aug-05	0.12	14.8		0.44	0.34	4.51	0.00
SP-1	-128.4	Sep-06			0.71		0.74	0.4	0.00
NL-29	-13.82	Jan-07		0.32	0.78		0.29		0.00
Pier25-11	-127.7	Oct-05		7.41	0.158		2.45	1.88	0.00
SP-1	-198.4	Sep-06			0.59		1.5		0.00

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OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
709-MW9-25	-10.14	Aug-12		5.8				27	0.00
Pier25-3	-159.92	Aug-05	0.0702	11.5		0.243	1.3	5.25	0.00
5106-10	-96.72	Nov-05		12				18	0.00
GP-11	-13.4	Mar-04		4.6				28	0.00
5106-20	-135.82	Jan-06	0.093	6.21	0.0575	0.194	0.0635	18	0.00
NL-26	-39.72	Jan-07			0.78				0.00
Pier25-6	-149.02	Aug-05	0.086	10.9	0.0736	0.253	1.08	1.99	0.00
Dock2-8	-94.12	Aug-05		12.5		0.222	1.58	0.303	0.00
Dock2-9	-48.02	Sep-05		20.1		0.0622	0.111	2.6	0.00
A-2	-41	May-06		2.4	0.21	0.24	2.2		0.00
721-GP5	-13.4	Jun-04		23					0.00
Dock2-4	-69.02	Jul-05		7.66		0.42	1.72	0.493	0.00
90C-130	-114.25	Jul-12		5.6			2.3	7.4	0.00
SP-4	-128.4	Sep-06			0.64		0.51		0.00
Dock2-8	-89.12	Aug-05		13		0.222	1.21		0.00
Pier25-30	-95.62	Jan-06	0.072	8.87		0.145		15.2	0.00
78-50	-37.21	Apr-06		2	0.11	0.94	0.1	4	0.00
NL-15	-9.62	Dec-05		1.05	0.485	0.092	0.875	0.272	0.00
709-MW13-15	0	Mar-04		7.5			2.9		0.00
SP-2	-218.4	Sep-06		0.51	0.48		1.3		0.00
84C-160	-150.8	Jul-12			0.59		0.67		0.00
SP-8	-134.4	Oct-06			0.69				0.00
5106-24	-37.02	Feb-06			0.168	0.395	2.06		0.00
SB-B-DEEP	-72.45	Aug-13		1.5	0.25	0.3	1.5	0.09	0.00
SM15	-43.22	Jun-06		2.9	0.41		0.92	0.86	0.00
EA-3	-24.82	Oct-05		5.2				21	0.00
Pier25-7	-109.02	Aug-05		6.96		0.083		16.9	0.00
NL-26	-44.72	Jan-07			0.61		0.26		0.00
F-Deep	-46.83	Jun-13		2.6	0.31	0.14	1.1	0.61	0.00
HYD-7	-65.32	Sep-05		9.3		0.606	0.237	1.42	0.00
5106-26	-17.92	Feb-06		18				2.8	0.00
NL-14	-30.92	Dec-05		0.694	0.473	0.06	0.666	0.129	0.00
PZ-SHI-3-75	-60.28	Aug-12		0.43		1.2	0.29	0.93	0.00
Dock2-10	-65.82	Sep-05		1.07	0.105		3.04		0.00
5106-14	-126.82	Dec-05		7.36		0.16		13.6	0.00
5106-11	-72.82	Oct-05		15.3		0.218	0.163	0.338	0.00
721-MW5-50	-35.11	Aug-12		8.5		0.26		9.9	0.00
46C-50	-35.52	Aug-12		0.45		1.3		0.39	0.00
73-50	-37.61	Apr-06		0.98	0.29	0.15	1.4		0.00
G	-92.62	Jul-13		0.11	0.48		0.74		0.00
C-9	-41.2	May-06				1.2		1.9	0.00
CH-2	-13.4	Aug-06			0.52		0.44		0.00
Pier25-15	-97.72	Nov-05		6.9			0.54	12	0.00
NL-16	-27.82	May-06		0.26	0.48	0.098	0.16	0.95	0.00
15-120	-105.5	Aug-12					3.6		0.00
Pier25-10	-148.99	Oct-05		14			0.78		0.00
Pier25-24	-132.32	Jan-06		2.6				21	0.00
Pier25-16	-157.72	Nov-05		10.5	0.0955	0.135	0.114	2.57	0.00
5106-9	-150.92	Nov-05		4.8			2.6		0.00
Pier25-18	-144.32	Dec-05			0.57				0.00
SP-8	-124.4	Oct-06		0.27	0.48		0.44		0.00
NL-15	-24.62	Dec-05		1.18	0.365	0.144	0.535		0.00
Pier25-20	-107.72	Dec-05		9.2		0.35		4.1	0.00
SM5	-43.92	Jun-06		4.9	0.15		1.1	2.7	0.00
NAVY-3-04	-8.3	Jan-04		17					0.00

APPENDIX S

KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
17-24	-10.7	Apr-06		0.76	0.44		0.45	0.15	0.00
5106-13	-149.52	Nov-05		8.2			0.73	6.5	0.00
34C-160	-151.52	Aug-12		6.6		0.52		3.5	0.00
45-50	-35.2	Aug-12		0.12		1.1		0.53	0.00
17C-25	-10.23	Aug-12		0.68	0.19	0.39	0.75	0.12	0.00
SM3	-14.72	Jun-06		1.4	0.32		0.78	0.33	0.00
NL-16	-17.82	May-06		0.68	0.26	0.31	0.38	0.26	0.00
Pier25-3	-139.92	Aug-05	0.0722	6.99		0.173	0.506	3.92	0.00
Dock2-10	-75.82	Sep-05		0.821	0.0841		2.3		0.00
67-25	-10.99	Jul-12		2.5	0.28		0.63	0.25	0.00
709-MW16-25	-10.29	Jul-12		10		0.29		0.52	0.00
5106-24	-12.02	Feb-06			0.184		1.72		0.00
Pier25-3	-99.92	Aug-05						19.3	0.00
709-MW6-25	-10.94	Aug-12		2.8		0.75		0.75	0.00
78C-160	-154.3	Jul-12		0.31		0.14		16	0.00
Dock2-10	-55.82	Sep-05		0.714			2.63		0.00
T3-50	-35.33	Jul-12		0.48	0.12	0.51	0.25	1.4	0.00
SP-4	-118.4	Sep-06			0.37		0.39		0.00
NL-26	-34.72	Jan-07			0.43				0.00
Dock2-12	-66.42	Nov-05		4.7			1.1	4.1	0.00
EA-3	-19.82	Oct-05		13					0.00
46C-25	-10.57	Aug-12	0.28	1.4	0.17	0.27	0.28	0.23	0.00
Dock2-12	-81.42	Nov-05		4.6			0.98	4.3	0.00
5106-10	-51.72	Nov-05		1.6			0.95	8.6	0.00
Dock2-10	-60.97	Sep-05		0.817			2.34		0.00
90C-160	-154.22	Jul-12		0.69	0.21		0.67	2.4	0.00
SB-B-DEEP	-62.45	Aug-13		2.2	0.12	0.15	0.77	0.11	0.00
21C-130	-104.71	Jul-12		0.94	0.19		0.81	1.1	0.00
SP-6	-157.4	Aug-06		0.31	0.25		0.71		0.00
Pier25-3	-129.92	Aug-05		6.12		0.201		3.65	0.00
Dock2-9	-103.02	Sep-05		9.43			0.433		0.00
NL-28	-27.72	Jan-07		0.97	0.21			5.6	0.00
Pier25-25	-41.42	Jan-06						15.8	0.00
G	-62.62	Jul-13			0.27		0.6		0.00
Dock2-10	-45.82	Sep-05		0.523			2.16		0.00
Pier25-6	-84.12	Feb-06		3.16			0.381	8.6	0.00
Pier25-25	-131.42	Jan-06	0.102	6.02			0.023	6.7	0.00
Dock2-10	-80.82	Sep-05		0.646			2.09		0.00
60-50	-34.87	Aug-12		1.6				13	0.00
C-10	-41.05	May-06		0.28	0.2	0.18	0.4		0.00
HYD-3	-80.61	Aug-05		1.8		0.352	0.841	0.063	0.00
Pier25-18	-154.32	Dec-05						15	0.00
5106-10	-161.72	Nov-05		2.9				11	0.00
5106-20	-125.82	Jan-06		1.81	0.0605	0.054	0.117	7.85	0.00
Pier25-3	-169.92	Aug-05		4.4		0.11	0.739	1.47	0.00
Dock2-8	-64.12	Aug-05		10.7					0.00
SP-2	-98.4	Sep-06			0.34				0.00
Dock2-1	-58.72	Jul-05		10.5					0.00
5106-12	-131.02	Oct-05		0.331	0.198		0.745	0.208	0.00
Dock2-8	-124.12	Aug-05		4.89		0.102	0.778	0.165	0.00
Dock2-8	-99.12	Aug-05		6.01			0.834	0.172	0.00
Dock2-9	-78.02	Sep-05		9.04			0.198		0.00
Pier25-12	-57.52	Feb-06		0.289	0.213		0.607		0.00
77-100	-88.99	Dec-08		7.9				2.7	0.00
NL-28	-17.72	Jan-07			0.26		0.16	1.2	0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
Dock2-5	-44.82	Aug-05		1				12	0.00
NL-28	-12.22	Jan-07		0.36	0.3				0.00
Dock2-10	-50.82	Sep-05		0.416			1.85		0.00
EA-3	-1.82	Oct-05		2.2			0.75	5.1	0.00
CH-3	-38.4	Jul-06		6.5				4.2	0.00
EA-2	-74.82	Oct-05		1.21	0.24			1.2	0.00
5106-13	-129.52	Nov-05					1.9		0.00
Pier25-6	-74.12	Feb-06		0.841			1.73		0.00
Dock2-12	-76.42	Nov-05		3.7			0.75	2.8	0.00
12-75	-58.73	Aug-12						13	0.00
Dock2-10	-70.82	Sep-05		0.596			1.76		0.00
NL-29	-28.82	Jan-07			0.3				0.00
95-15	1.5	Aug-12		0.3		0.59		0.54	0.00
57-50	-36.2	Apr-06		0.35	0.15	0.15	0.38		0.00
Dock2-9	-68.02	Sep-05		6.99			0.407		0.00
46-50	-34.2	Apr-06		0.099		0.48		2.8	0.00
SP-4	-158.4	Sep-06			0.23		0.35		0.00
NL-13	-27.62	Dec-05		0.275	0.24		0.227		0.00
5106-10	-141.72	Nov-05		5.4				4.6	0.00
Dock2-8	-74.12	Aug-05		6.81				2.48	0.00
72-50	-37.33	Dec-08		0.63	0.15		0.66		0.00
Pier25-9	-168.92	Oct-05					1.7		0.00
SP-4	-148.4	Sep-06			0.21		0.38		0.00
NL-26	-49.72	Jan-07			0.27				0.00
Pier25-8	-147.92	Aug-05		4.75		0.149		1.96	0.00
5106-23	-17.42	Feb-06	0.222	1.66		0.347	0.186	0.253	0.00
721-GP2	-3.4	Jun-04						11	0.00
NL-16	-21.82	May-06		0.37	0.14	0.14	0.17	0.26	0.00
Pier25-30	-105.62	Jan-06		3.56			0.043	5.43	0.00
5106-12	-141.02	Oct-05		0.197	0.148		0.561	0.111	0.00
Pier25-8	-167.92	Aug-05		4.05		0.131	0.158	1.33	0.00
EXT-9	-80.43	Jul-13		2.6		0.35		0.12	0.00
NL-28	-32.72	Jan-07			0.24				0.00
SP-5	-128.4	Aug-06			0.24				0.00
41C-75	-60.07	Jul-12		0.15				10	0.00
709-MW17-15	2.1	Jul-12		0.55	0.17			2	0.00
22-25R	-10.5	Feb-05						10	0.00
GP-6	-88.4	Apr-04						10	0.00
Dock2-9	-83.02	Sep-05		6.14			0.228		0.00
Pier25-17	-149.02	Nov-05		2.9				6	0.00
5106-13	-134.52	Nov-05		3			0.84		0.00
721-PZ-3	-10.9	Jun-04		3.2				5.5	0.00
Dock2-8	-54.12	Aug-05		3.88			0.663		0.00
NL-16	-24.82	May-06		0.12	0.16	0.092	0.11	0.32	0.00
12A-25	-8.3	Aug-12		0.54				9.1	0.00
HYD-10	-69.72	Sep-05		0.461	0.163		0.314		0.00
34-75	-59.93	Aug-12		0.81		0.12		6.3	0.00
SP-7	-97.4	Aug-06		1.5			1.1		0.00
Pier25-1	-99.42	Jul-05						9.62	0.00
2-100	-84.5	Apr-06			0.2		0.14		0.00
5106-11	-137.82	Oct-05		0.464	0.126		0.478	0.196	0.00
16-25	-9.7	Apr-06		0.78	0.12		0.48		0.00
5106-12	-156.02	Oct-05		0.278	0.142		0.438		0.00
Pier25-20	-127.72	Dec-05		5				2.5	0.00
5106-7	-60.55	Aug-05		6.75					0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
Pier25-12	-47.52	Feb-06		1.76			0.757	1.64	0.00
Pier25-6	-64.12	Feb-06		0.989			1.14		0.00
Dock2-6	-49.62	Sep-05		1.05	0.0706		0.672	0.0854	0.00
46C-160	-155.19	Aug-12			0.21				0.00
5106-26	-92.92	Feb-06		5.6				1.2	0.00
SP-4	-138.4	Sep-06			0.18		0.17		0.00
NL-13	-30.62	Dec-05		0.149	0.173		0.166		0.00
Pier25-6	-43.62	Feb-06		1.1			1.05		0.00
5106-21	-130.42	Jan-06		2.64				5.03	0.00
Pier25-19	-147.02	Dec-05		2.74	0.056		0.0825	1.9	0.00
5106-9	-45.92	Nov-05		6.2					0.00
41C-50	-35.13	Jul-12		0.15				8.3	0.00
75-75	-60.27	Aug-12			0.18		0.11		0.00
Dock2-4	-74.02	Jul-05		5.74			0.0717		0.00
5106-30	-10.4	Apr-06		0.086	0.098		0.58		0.00
6A-50	-35.6	Aug-12		0.48		0.36		0.52	0.00
721-MW14-25	-9.87	Aug-12						8.1	0.00
67-50	-36.56	Jul-12		0.85	0.16				0.00
SM20	-49.32	Jun-06		1.1			0.84	0.61	0.00
Pier25-27	-75.72	Jan-06		2.5		0.145		1.62	0.00
Dock2-6	-79.62	Sep-05		0.872	0.0696		0.536		0.00
21C-100	-78.66	Jul-12		4				2.3	0.00
5106-10	-111.72	Nov-05		2.6				4.2	0.00
Pier25-3	-109.92	Aug-05		2.76				3.89	0.00
HYD-10	-29.72	Sep-05		1.15		0.205	0.226	0.378	0.00
Pier25-30	-45.62	Jan-06						7.43	0.00
Dock2-9	-98.02	Sep-05		4.55			0.164		0.00
69-25	-12.41	Jul-12	0.12	4.5			0.1		0.00
68-25	-11.15	Apr-06		0.59	0.097		0.34		0.00
HYD-6	-101.81	Oct-05		0.733			0.886	0.176	0.00
709-MW18-50	-35.15	Jul-12		2.6				3.6	0.00
709-MW11-15	1.1	Jul-12		0.07	0.11		0.34		0.00
F-Deep	-106.83	Jul-13		2.4		0.1	0.23	0.28	0.00
5106-7	-65.55	Aug-05		5.15					0.00
Pier25-10	-158.99	Oct-05		3.9			0.24		0.00
5106-8	-87.02	Aug-05		0.524	0.146				0.00
CH-4	0.6	May-06					1		0.00
SM14	-22.82	Jun-06		0.85			0.83		0.00
5106-26	-12.92	Feb-06		5					0.00
SP-2	-128.4	Sep-06			0.16				0.00
HYD-8	-57.92	Sep-05		0.287	0.106		0.266		0.00
Pier25-33	-3.37	May-06		0.85		0.25	0.1		0.00
Pier25-3	-179.92	Aug-05		2.39		0.0586	0.196	0.944	0.00
43-25	-8.8	Apr-06		2.1				3.8	0.00
Dock2-3	-58.42	Jul-05		4.17			0.132		0.00
5106-19	-156.42	Jan-06		0.935	0.0635		0.077	1.93	0.00
5106-7	-85.55	Aug-05		0.803	0.123				0.00
721-MW11-50	-35.04	Aug-12		0.68				5.4	0.00
Pier25-11	-117.7	Oct-05		2.01			0.396	0.84	0.00
5106-12	-136.02	Oct-05		0.106	0.107		0.215		0.00
NL-23	-15.82	Aug-06		4.5					0.00
5106-19	-86.42	Jan-06		0.757	0.0575		0.074	2.02	0.00
78C-50	-35.04	Jul-12		0.65		0.19		1.4	0.00
46C-130	-115.29	Aug-12			0.14				0.00
Pier25-27	-85.72	Jan-06		2.11		0.083		1.45	0.00

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**KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
			Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	
5106-8	-47.02	Aug-05		4.21					0.00
EA-1	-126.32	Oct-05			0.098		0.23		0.00
HYD-7	-75.32	Sep-05		0.482	0.064	0.044	0.173	0.324	0.00
Pier25-23	-121.22	Jan-06		2.3				2.3	0.00
SB-B-DEEP	-82.45	Aug-13		0.58			0.67		0.00
40A-25	-7.9	Dec-08		2.4				2.1	0.00
5106-7	-90.55	Aug-05		0.985	0.078		0.0811		0.00
Dock2-6	-84.62	Sep-05		0.933			0.569		0.00
5106-14	-151.82	Dec-05		0.354	0.102			0.312	0.00
64-100	-85.23	Jul-12		1.2		0.17		0.12	0.00
HYD-4	-128.62	Sep-05		0.533	0.063		0.213	0.108	0.00
9-100	-85.8	Aug-12		0.3		0.15	0.2	0.27	0.00
EA-3	-39.82	Oct-05		3.6					0.00
Pier25-7	-149.02	Aug-05		0.597			0.583	0.113	0.00
55-50	-35.1	Aug-12				0.24		0.23	0.00
Dock2-6	-69.62	Sep-05		0.721			0.562		0.00
5106-7	-55.55	Aug-05		3.52					0.00
HYD-9	-75.17	Sep-05		0.227	0.07		0.221		0.00
2-25	-9.4	Apr-06		1			0.5		0.00
5106-26	-87.92	Feb-06		3.5					0.00
41C-100	-85	Jul-12		0.08				4.6	0.00
Pier25-25	-121.42	Jan-06		1.31				2.85	0.00
3-25	-9.9	Aug-12		0.96		0.11	0.1	0.48	0.00
Dock2-4	-84.02	Jul-05		2.19		0.0825			0.00
NL-14	-33.92	Dec-05		0.652			0.538		0.00
72-25	-12.72	Apr-06		0.37		0.12	0.25		0.00
5106-11	-47.82	Oct-05		0.234	0.0775			0.887	0.00
40-75	-61.21	Aug-12		0.07				4.4	0.00
5106-8	-137.02	Aug-05		0.0698	0.103				0.00
78C-25	-10.07	Jul-12		1.5				2.4	0.00
EA-2	-134.82	Oct-05			0.104				0.00
WW-A1R	-60.5	Aug-12		0.11	0.1				0.00
Pier25-22	-119.92	Jan-06		1.1				2.9	0.00
5106-13	-44.52	Nov-05		3.1					0.00
5106-11	-77.82	Oct-05		2.98				0.128	0.00
Pier25-19	-47.02	Dec-05		0.727	0.0605		0.051	0.273	0.00
Dock2-12	-56.42	Nov-05		1.6				2	0.00
SM6	-47.72	Jun-06		0.43			0.52		0.00
Pier25-14	-117.72	Nov-05		0.656			0.473		0.00
EA-1	-141.32	Oct-05			0.0715		0.157		0.00
5106-27	-77.72	Apr-06		2.4				0.83	0.00
709-MW9-15	0.1	Aug-12		3					0.00
5106-11	-127.82	Oct-05		0.973			0.378	0.111	0.00
709-MW21-50	-35.04	Jul-12		0.07				3.9	0.00
NL-15	-30.62	Dec-05			0.0915				0.00
NL-15	-33.62	Dec-05			0.09				0.00
Pier25-29	-86.42	Feb-06		2.8					0.00
Pier25-10	-138.99	Oct-05		2.8					0.00
C-7	-40.9	May-06		0.35	0.078				0.00
Dock2-8	-69.12	Aug-05		2.72					0.00
Dock2-6	-59.62	Sep-05		0.551			0.427		0.00
Dock2-6	-64.62	Sep-05		0.564			0.422		0.00
EA-2	-99.82	Oct-05		2.04			0.077	0.337	0.00
Dock2-9	-93.02	Sep-05		1.8			0.163		0.00
Pier25-29	-76.42	Feb-06		2.6					0.00

APPENDIX S

KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
Dock2-5	-54.82	Aug-05		0.56	0.0648				0.00
Pier25-21	-109.82	Jan-06		2.5					0.00
70-25	-11.99	Aug-12		0.37		0.15			0.00
Pier25-11	-147.7	Oct-05		0.774			0.313	0.182	0.00
Dock2-6	-44.62	Sep-05		0.389			0.409		0.00
721-MW10-15	-1.87	Aug-12				0.17			0.00
21C-160	-151.34	Jul-12		0.58			0.23	0.89	0.00
Dock2-3	-53.42	Jul-05		1.14				1.66	0.00
Dock2-8	-59.12	Aug-05		2.34					0.00
EA-3	-134.82	Nov-05		2.3					0.00
89C-75	-60.02	Aug-12		0.3		0.14			0.00
Dock2-5	-69.82	Aug-05		1.84				0.535	0.00
709-MW15A-50	-37.06	Aug-12		0.42		0.11		0.33	0.00
Pier25-29	-36.42	Feb-06		2.2					0.00
EA-3	-44.82	Oct-05		2.2					0.00
Dock2-7	-67.52	Sep-05		0.511			0.336		0.00
Pier25-19	-137.02	Dec-05		1.26				1.24	0.00
HYD-2	-73.62	Aug-05			0.0691				0.00
91C-75	-59.45	Jul-12		0.18			0.16	1.6	0.00
EA-1	-121.32	Oct-05			0.0585		0.0625		0.00
NL-14	-36.92	Dec-05		1.91				0.306	0.00
5106-26	-5.92	Feb-06		1.1				1.4	0.00
HYD-5	-92.29	Oct-05		0.414	0.051			0.142	0.00
35-50	-30.4	Dec-08		1				1.5	0.00
18-50R	-35.5	Aug-12		1.5				0.8	0.00
Pier25-2	-49.02	Jul-05		0.508		0.0736	0.106		0.00
Pier25-7	-159.02	Aug-05		0.319			0.335	0.111	0.00
Dock2-12	-96.42	Nov-05					0.41		0.00
HYD-6	-71.81	Sep-05		0.235			0.329	0.224	0.00
Dock2-6	-54.62	Sep-05		0.484			0.299		0.00
C-6	-40.8	May-06		0.16			0.36		0.00
NL-15	-36.62	Dec-05		1.96					0.00
Dock2-6	-74.62	Sep-05		0.35			0.318		0.00
Dock2-4	-64.02	Jul-05		1.94					0.00
Dock2-7	-77.52	Sep-05		0.48			0.289		0.00
Pier25-16	-50.32	Dec-05		0.589			0.231	0.23	0.00
Dock2-5	-49.82	Aug-05		1.38			0.106		0.00
NL-24	-53.71	Jan-07		1.9					0.00
Pier25-16	-57.72	Dec-05		1.03			0.099	0.506	0.00
709-MW11-25	-11.28	Jul-12		0.14				2.4	0.00
91C-100	-86.66	Jul-12		0.21			0.16	1.2	0.00
NL-15	-27.62	Dec-05			0.06				0.00
5106-22	-37.02	Jan-06						2.5	0.00
5106-10	-146.72	Nov-05						2.5	0.00
5106-10	-151.72	Nov-05						2.5	0.00
Dock2-7	-52.52	Sep-05		0.498			0.263		0.00
Pier25-18	-44.32	Dec-05		1.8					0.00
HYD-7	-85.32	Sep-05		0.893			0.152	0.196	0.00
Dock2-4	-54.02	Jul-05		1.78					0.00
Pier25-2	-149.02	Aug-05		1.06			0.13		0.00
5106-7	-70.55	Aug-05		1.71					0.00
SM26	-8.72	Jun-06					0.34		0.00
5106-7	-75.55	Aug-05		1.69					0.00
HYD-8	-97.92	Sep-05		0.264			0.284		0.00
HYD-8	-127.92	Sep-05		0.241			0.274		0.00

APPENDIX 5

KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
Pier25-7	-139.02	Aug-05		0.306			0.219	0.187	0.00
Pier25-14	-97.72	Nov-05		0.148			0.277		0.00
HYD-6	-81.86	Sep-05		0.288			0.247		0.00
Pier25-14	-87.72	Nov-05		0.243			0.254		0.00
SP-6	-167.4	Aug-06					0.3		0.00
Pier25-21	-89.82	Jan-06		1.5					0.00
NL-14	-39.92	Dec-05		1.18				0.42	0.00
HYD-9	-135.17	Sep-05		0.282			0.24		0.00
Pier25-6	-54.12	Feb-06		0.353			0.221		0.00
2-50	-34.6	Apr-06		0.95			0.1		0.00
5106-30	-70.4	Apr-06		0.087			0.27		0.00
25-25	-11.2	Apr-06		1.4					0.00
Pier25-26	-17.02	Jan-06		1.4					0.00
5106-11	-82.82	Oct-05		1.35					0.00
5106-19	-136.42	Jan-06		0.454				1.22	0.00
5106-5	-113.92	Sep-05					0.268		0.00
5106-3	-158.82	Sep-05		0.393			0.131	0.398	0.00
41C-160	-154.85	Jul-12		0.14			0.13	0.74	0.00
HYD-8	-77.92	Sep-05		0.205			0.22		0.00
Pier25-8	-82.92	Aug-05		0.0948				1.66	0.00
Pier25-23	-131.22	Jan-06		1.3					0.00
43-50	-33.8	Aug-12		0.24			0.21		0.00
80-25	-10.15	Jul-12		0.38			0.18		0.00
5106-11	-117.82	Oct-05		0.179			0.22		0.00
Pier25-27	-95.72	Jan-06		0.864				0.552	0.00
Pier25-16	-45.32	Dec-05		0.498			0.117	0.243	0.00
SP-1	-118.4	Sep-06					0.25		0.00
35-100	-83.5	Apr-06		0.2			0.21		0.00
Dock2-7	-62.52	Sep-05		0.246			0.2		0.00
9-25	-10.9	Aug-12		0.35				1.2	0.00
5106-20	-42.82	Jan-06				0.086			0.00
Pier25-29	-66.42	Feb-06		1.2					0.00
5106-19	-126.42	Jan-06		0.323				1.2	0.00
HYD-8	-87.92	Sep-05		0.183			0.202		0.00
5106-23	-37.42	Feb-06		0.567			0.125		0.00
WW-A1R	-46.5	Aug-12		0.49			0.14		0.00
HYD-9	-115.17	Sep-05		0.273			0.183		0.00
5106-3	-138.82	Sep-05		0.604				0.794	0.00
Pier25-29	-116.42	Feb-06						1.6	0.00
GP-9	-38.4	Mar-04						1.6	0.00
Dock2-7	-72.52	Sep-05		0.235			0.185		0.00
HYD-9	-85.17	Sep-05		0.179			0.196		0.00
71-50	-37.3	Jul-12				0.08			0.00
A-1	-41.9	May-06		0.18				1.3	0.00
SP-3	-168.4	Sep-06					0.22		0.00
89C-130	-114.86	Aug-12		1.1					0.00
23-25R	-9.8	Aug-12		1.1					0.00
64-25	-11.34	Dec-08		1.1					0.00
SM8	-39.82	Jun-06		1.1					0.00
Pier25-27	-35.72	Jan-06						1.49	0.00
5106-23	-32.42	Feb-06					0.21		0.00
EA-2	-114.82	Oct-05		1.04					0.00
NL-16	-33.82	May-06		0.21				1.1	0.00
Dock2-7	-47.52	Sep-05		0.193			0.161		0.00
HYD-9	-125.17	Sep-05		0.24			0.15		0.00

APPENDIX 5

KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
HYD-9	-45.17	Sep-05		0.083			0.181		0.00
Pier25-27	-105.72	Jan-06		0.644				0.454	0.00
Pier25-7	-179.02	Aug-05		0.264			0.136		0.00
Dock2-1	-83.72	Jul-05		0.397				0.752	0.00
HYD-8	-107.92	Sep-05		0.127			0.154		0.00
40A-50	-32.8	Dec-08		0.89					0.00
HYD-8	-67.92	Sep-05		0.176			0.141		0.00
5106-3	-133.82	Sep-05		0.45				0.591	0.00
15-50R	-36.6	Aug-12						1.2	0.00
9-50	-35.7	Aug-12						1.2	0.00
8-23	-8.5	Aug-12		0.32			0.11		0.00
HYD-10	-79.72	Sep-05		0.177			0.137		0.00
SP-1	-108.4	Sep-06					0.17		0.00
Pier25-14	-67.72	Nov-05		0.114			0.147		0.00
EXT-9	-70.43	Jul-13		0.85					0.00
Pier25-2	-89.02	Jul-05						1.14	0.00
WW-A1D	-44.4	Aug-12		0.26			0.11		0.00
91C-50	-36.16	Jul-12						1.1	0.00
SM7	-42.22	Jun-06		0.79					0.00
85C-25	-9.63	Jul-12		0.78					0.00
5106-11	-122.82	Oct-05		0.124			0.123		0.00
34-100	-85.5	Dec-08		0.71					0.00
Pier25-1	-47.92	Jun-05					0.141		0.00
46C-100	-85.38	Aug-12						0.95	0.00
HYD-10	-99.72	Sep-05					0.138		0.00
12-25	-10.6	Aug-12		0.69					0.00
Pier25-1	-119.42	Jul-05		0.462				0.312	0.00
Pier25-17	-51.42	Dec-05		0.42				0.357	0.00
CH-3	-63.4	Jul-06		0.68					0.00
Dock2-4	-59.02	Jul-05		0.667					0.00
5106-27	-67.72	Apr-06		0.42				0.33	0.00
5106-8	-57.02	Aug-05		0.66					0.00
HYD-9	-65.17	Sep-05		0.112			0.109		0.00
HYD-6	-121.81	Oct-05		0.107			0.1	0.0635	0.00
Dock2-2	-82.02	Jul-05		0.0901			0.109		0.00
HYD-6	-151.81	Oct-05		0.0745			0.112		0.00
16-50	-35.6	Apr-06		0.22			0.082		0.00
Pier25-32	-1.82	Apr-06		0.63					0.00
Pier25-15	-43.12	Dec-05		0.612					0.00
WW-B4	-83.12	May-06		0.5				0.15	0.00
18-25	-9	Aug-12		0.6					0.00
5106-8	-72.02	Aug-05		0.575					0.00
5106-7	-80.55	Aug-05		0.564					0.00
Pier25-7	-89.02	Aug-05						0.765	0.00
5106-12	-51.02	Oct-05					0.106		0.00
NL-16	-30.82	May-06		0.27				0.35	0.00
70-50	-38	Apr-06					0.1		0.00
42-25	-9.1	Aug-12		0.49					0.00
5106-32	-23.82	May-06		0.074			0.082		0.00
Pier25-11	-107.7	Oct-05		0.388				0.124	0.00
Dock2-5	-74.82	Aug-05		0.298				0.238	0.00
Dock2-3	-73.42	Jul-05		0.466					0.00
WW-B4	-118.12	May-06		0.26				0.28	0.00
5106-8	-62.02	Aug-05		0.455					0.00
721-MW14-50	-34.9	Aug-12						0.62	0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
Pier25-1	-59.42	Jul-05		0.0458			0.0803		0.00
EA-2	-109.82	Oct-05		0.444					0.00
5106-14	-146.82	Dec-05		0.0855				0.49	0.00
EA-1	-131.32	Oct-05					0.0865		0.00
5106-3	-123.82	Sep-05		0.227				0.276	0.00
Pier25-4	-109.92	Aug-05		0.0657			0.0717		0.00
84C-25	-10.88	Jul-12		0.21				0.29	0.00
Pier25-8	-137.92	Aug-05		0.336				0.109	0.00
Pier25-4	-89.92	Aug-05		0.0887			0.0651		0.00
Pier25-30	-25.62	Jan-06		0.264				0.204	0.00
5106-8	-67.02	Aug-05		0.406					0.00
Pier25-4	-119.92	Aug-05		0.0719			0.0667		0.00
SM16	-47.92	Jun-06		0.4					0.00
Pier25-28	-14.92	Jan-06				0.0275			0.00
Pier25-14	-77.72	Nov-05					0.0765		0.00
WW-A1R	-51.5	Aug-12		0.38					0.00
Dock2-5	-79.82	Aug-05		0.236				0.186	0.00
Pier25-2	-159.02	Aug-05					0.0739		0.00
709-MW16-75	-60.44	Jul-12		0.37					0.00
8-99R	-83	May-06					0.073		0.00
721-MW13-50	-35.16	Jul-12						0.5	0.00
HYD-6	-91.86	Oct-05		0.057			0.051	0.062	0.00
Dock2-8	-104.12	Aug-05		0.357					0.00
5106-25	-89.52	Apr-06						0.48	0.00
Dock2-3	-78.42	Jul-05		0.349					0.00
Pier25-3	-149.92	Aug-05		0.246				0.095	0.00
721-MW10-25	-11.8	Aug-12		0.1				0.29	0.00
Pier25-8	-47.92	Aug-05		0.305					0.00
7-100	-84.7	Aug-12		0.3					0.00
5106-7	-95.55	Aug-05		0.297					0.00
91C-25	-11.15	Jul-12						0.4	0.00
Dock2-8	-114.12	Aug-05		0.286					0.00
5106-19	-116.42	Jan-06		0.11				0.241	0.00
5106-14	-141.82	Dec-05						0.384	0.00
F-Deep	-96.83	Jul-13		0.27					0.00
WW-B4	-88.12	May-06		0.26					0.00
Pier25-8	-57.92	Aug-05		0.25					0.00
Pier25-11	-137.7	Oct-05		0.249					0.00
5106-19	-56.42	Jan-06		0.118				0.175	0.00
Pier25-1	-109.42	Jul-05		0.0904				0.207	0.00
36-50	-36.8	Aug-12		0.24					0.00
HYD-8	-47.92	Sep-05		0.185				0.066	0.00
HYD-3	-40.61	Aug-05		0.231					0.00
5106-8	-77.02	Aug-05		0.227					0.00
25A-50	-33.2	May-06		0.064				0.22	0.00
Pier25-25	-51.42	Jan-06						0.305	0.00
5106-8	-112.02	Aug-05		0.218					0.00
721-MW9-15	-1.13	Jul-12		0.09				0.14	0.00
5106-11	-62.82	Oct-05						0.263	0.00
5106-21	-120.42	Jan-06		0.059				0.176	0.00
5106-19	-106.42	Jan-06		0.0605				0.173	0.00
HYD-3	-30.61	Aug-05		0.185					0.00
40-25	-8.6	Aug-12		0.11				0.1	0.00
42-50	-34.1	Aug-12						0.25	0.00
Pier25-27	-25.72	Jan-06						0.245	0.00

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**KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
5106-11	-87.82	Oct-05		0.175					0.00
5106-3	-163.82	Sep-05		0.062				0.14	0.00
HYD-5	-102.29	Oct-05		0.162					0.00
5106-19	-96.42	Jan-06		0.054				0.147	0.00
HYD-10	-89.72	Sep-05		0.158					0.00
Dock2-8	-139.12	Aug-05		0.155					0.00
88C-25	-10	Aug-12		0.15					0.00
44-25	-9.2	Aug-12		0.15					0.00
HYD-6	-161.81	Oct-05		0.144					0.00
Pier25-11	-157.7	Oct-05		0.143					0.00
C-8	-41	May-06		0.14					0.00
PZ-SHI-3-100	-85.82	Apr-06		0.14					0.00
F-Deep	-86.83	Jul-13		0.13					0.00
Pier25-7	-129.02	Aug-05		0.0534				0.094	0.00
5106-8	-102.02	Aug-05		0.121					0.00
WW-A1D	-48.4	Aug-12		0.12					0.00
71-25	-11.68	Jul-12		0.12					0.00
NL-13	-33.62	Dec-05		0.116					0.00
5106-21	-125.42	Jan-06						0.153	0.00
721-MW10-75	-60.02	Aug-12		0.11					0.00
41C-25	-10.15	Jul-12		0.11					0.00
35-100R	-84.15	Aug-12		0.1					0.00
5106-12	-46.02	Oct-05						0.125	0.00
44-50	-34.2	Aug-12		0.09					0.00
5106-7	-120.55	Aug-05		0.0882					0.00
H-01	-81.59	Jun-13						0.12	0.00
721-MW12-50	-46	Jul-12						0.12	0.00
Pier25-2	-59.02	Jul-05		0.0804					0.00
Dock2-7	-57.52	Sep-05		0.0774					0.00
Pier25-2	-79.02	Jul-05		0.0727					0.00
WW-A1D	-119.4	Aug-12		0.07					0.00
NL-13	-36.62	Dec-05		0.0696					0.00
Pier25-5	-99.92	Aug-05		0.069					0.00
Pier25-1	-79.42	Jul-05		0.0583					0.00
Pier25-3	-89.92	Aug-05		0.0505					0.00
Pier25-5	-89.92	Aug-05		0.0469					0.00
Dock2-1	-88.72	Jul-05						0.0609	0.00
H-01	-61.59	Jun-13							0.00
H-01	-71.59	Jun-13							0.00
WW-A1D	-152.4	Aug-12							0.00
WW-A1D	-139.4	Aug-12							0.00
WW-A1D	-109.4	Aug-12							0.00
WW-A1D	-129.4	Aug-12							0.00
WW-A1D	-89.4	Aug-12							0.00
WW-A1D	-53.4	Aug-12							0.00
721-MW5-75	-60.19	Aug-12							0.00
T5-120	-104.3	Aug-12							0.00
12-160	-144.02	Aug-12							0.00
5-75	-59.5	Aug-12							0.00
46C-75	-60.51	Aug-12							0.00
709-MW20-75	-61.56	Aug-12							0.00
40-50	-34.1	Aug-12							0.00
709-MW20-50	-34.29	Aug-12							0.00
WW-A1R	-42.5	Aug-12							0.00
74-50	-35.76	Aug-12							0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
		Region 9 solubility (µg/L)	2420000	6410000	206000	452000	1280000	8800000	
74-75	-60.76	Aug-12							0.00
88C-100	-84.99	Aug-12							0.00
88C-130	-114.98	Aug-12							0.00
88C-160	-155.02	Aug-12							0.00
88C-50	-35	Aug-12							0.00
88C-75	-60	Aug-12							0.00
HC-N11-5	2.29	Aug-12							0.00
HC-N11-6	1.57	Aug-12							0.00
HC-N11-8	2.16	Aug-12							0.00
81-50	-35.9	Aug-12							0.00
65-100	-85.94	Aug-12							0.00
65-130	-115.73	Aug-12							0.00
45-100	-85.9	Aug-12							0.00
709-MW6-50	-35.01	Aug-12							0.00
75-100	-85.29	Aug-12							0.00
75-130	-115.2	Aug-12							0.00
75-50	-35.36	Aug-12							0.00
5-100	-85.8	Aug-12							0.00
6A-100	-85.3	Aug-12							0.00
7-181	-165.5	Aug-12							0.00
721-MW14-15	1.64	Aug-12							0.00
17C-100	-85.34	Aug-12							0.00
17C-160	-155.29	Aug-12							0.00
17C-130	-105.33	Aug-12							0.00
17C-50	-35.27	Aug-12							0.00
17C-75	-60.32	Aug-12							0.00
721-MW11-15	1.48	Jul-12							0.00
721-MW11-25	-10.03	Jul-12							0.00
721-MW11-75	-60.04	Jul-12							0.00
721-MW13-15	1.46	Jul-12							0.00
721-MW13-25	-10.11	Jul-12							0.00
721-MW12-15	1.47	Jul-12							0.00
721-MW12-25	-10.08	Jul-12							0.00
721-MW15-15	1.3	Jul-12							0.00
721-MW15-25	-10.17	Jul-12							0.00
721-MW15-50	-35.1	Jul-12							0.00
82-100	-82.4	Jul-12							0.00
709-MW16-50	-35.42	Jul-12							0.00
709-MW21-15	1.55	Jul-12							0.00
709-MW21-25	-10.02	Jul-12							0.00
721-MW6-15	-1.2	Jul-12							0.00
721-MW6-25	-11.23	Jul-12							0.00
721-MW6-50	-36.32	Jul-12							0.00
86C-100	-83.71	Jul-12							0.00
86C-130	-113.76	Jul-12							0.00
86C-160	-153.35	Jul-12							0.00
86C-75	-58.71	Jul-12							0.00
86C-25	-8.65	Jul-12							0.00
86C-50	-33.7	Jul-12							0.00
87C-100	-84.35	Jul-12							0.00
87C-130	-114.41	Jul-12							0.00
87C-160	-154.41	Jul-12							0.00
87C-25	-9.38	Jul-12							0.00
87C-50	-34.38	Jul-12							0.00
87C-75	-59.36	Jul-12							0.00

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EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
721-MW9-50	-36.4	Jul-12							0.00
85C-100	-84.9	Jul-12							0.00
85C-130	-114.49	Jul-12							0.00
85C-160	-145.19	Jul-12							0.00
85C-50	-34.8	Jul-12							0.00
85C-75	-59.82	Jul-12							0.00
95C-100	-85.22	Jul-12							0.00
95C-130	-115.21	Jul-12							0.00
95C-160	-146.17	Jul-12							0.00
95C-25	-10.2	Jul-12							0.00
95C-50	-35.22	Jul-12							0.00
95C-75	-60.2	Jul-12							0.00
84C-100	-85.78	Jul-12							0.00
84C-130	-115.66	Jul-12							0.00
84C-50	-35.91	Jul-12							0.00
84C-75	-60.8	Jul-12							0.00
92C-100	-84.73	Jul-12							0.00
92C-130	-114.65	Jul-12							0.00
92C-160	-154.29	Jul-12							0.00
92C-25	-8.665	Jul-12							0.00
92C-50	-34.61	Jul-12							0.00
92C-75	-59.61	Jul-12							0.00
93C-100	-85.62	Jul-12							0.00
93C-130	-116.39	Jul-12							0.00
93C-160	-156.45	Jul-12							0.00
93C-25	-11.4	Jul-12							0.00
93C-50	-36.45	Jul-12							0.00
93C-75	-61.45	Jul-12							0.00
41-100	-85.8	Dec-08							0.00
55-100	-84.2	Dec-08							0.00
76-100	-86.31	Dec-08							0.00
61-25	-9.67	Dec-08							0.00
61-50	-34.21	Dec-08							0.00
12-45	-28.92	Dec-08							0.00
NL-25	-56.82	Jan-07							0.00
NL-30	-32.57	Jan-07							0.00
NL-30	-37.57	Jan-07							0.00
NL-30	-42.57	Jan-07							0.00
NL-30	-47.57	Jan-07							0.00
NL-30	-52.57	Jan-07							0.00
NL-25	-36.82	Jan-07							0.00
NL-25	-41.82	Jan-07							0.00
NL-25	-46.82	Jan-07							0.00
NL-25	-51.82	Jan-07							0.00
NL-29	-18.82	Jan-07							0.00
NL-29	-23.82	Jan-07							0.00
NL-29	-33.82	Jan-07							0.00
SP-8	-154.4	Oct-06							0.00
SP-3	-188.4	Oct-06							0.00
SP-3	-178.4	Sep-06							0.00
SP-3	-148.4	Sep-06							0.00
SP-3	-158.4	Sep-06							0.00
SP-3	-128.4	Sep-06							0.00
SP-3	-98.4	Sep-06							0.00
SP-3	-108.4	Sep-06							0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
SP-4	-168.4	Sep-06							0.00
SP-4	-108.4	Sep-06							0.00
SP-2	-168.4	Sep-06							0.00
SP-2	-178.4	Sep-06							0.00
SP-2	-188.4	Sep-06							0.00
SP-2	-198.4	Sep-06							0.00
SP-2	-208.4	Sep-06							0.00
SP-2	-118.4	Sep-06							0.00
SP-2	-138.4	Sep-06							0.00
SP-2	-148.4	Sep-06							0.00
SP-2	-158.4	Sep-06							0.00
SP-2	-109.9	Sep-06							0.00
SP-1	-168.4	Sep-06							0.00
SP-1	-178.4	Sep-06							0.00
SP-1	-187.4	Sep-06							0.00
SP-1	-138.4	Sep-06							0.00
SP-1	-148.4	Sep-06							0.00
SP-1	-158.4	Sep-06							0.00
SP-7	-127.4	Aug-06							0.00
SP-7	-137.4	Aug-06							0.00
SP-7	-147.4	Aug-06							0.00
SP-7	-157.4	Aug-06							0.00
SP-7	-107.4	Aug-06							0.00
SP-7	-117.4	Aug-06							0.00
SP-6	-147.4	Aug-06							0.00
SP-6	-117.4	Aug-06							0.00
SP-6	-127.4	Aug-06							0.00
SP-6	-107.4	Aug-06							0.00
CH-2	-113.4	Aug-06							0.00
CH-2	-63.4	Aug-06							0.00
CH-2	-88.4	Aug-06							0.00
CH-2	-38.4	Aug-06							0.00
CH-3	-113.4	Jul-06							0.00
CH-3	-88.4	Jul-06							0.00
CH-4	-113.4	Jul-06							0.00
CH-4	-138.4	Jul-06							0.00
CH-4	-63.4	Jul-06							0.00
CH-4	-88.4	Jul-06							0.00
CH-4	-13.4	Jul-06							0.00
CH-4	-38.4	Jul-06							0.00
BH-65	-12.9	Jul-06							0.00
BH-65	-37.9	Jul-06							0.00
BH-65	-86.9	Jul-06							0.00
BH-75	-12.9	Jul-06							0.00
CH-1	-138.4	Jul-06							0.00
CH-1	-112.9	Jul-06							0.00
CH-1	-63.4	Jul-06							0.00
CH-1	-88.4	Jul-06							0.00
CH-1	-13.4	Jul-06							0.00
CH-1	-38.4	Jul-06							0.00
SP-8	-101.9	Jul-06							0.00
SM23	-42.22	Jun-06							0.00
SM25	-13.42	Jun-06							0.00
SM21	-42.32	Jun-06							0.00
SM18	-48.72	Jun-06							0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
SM19	-45.82	Jun-06							0.00
SM11	-3.62	Jun-06							0.00
SM9	-41.02	Jun-06							0.00
CH-1	3.1	Jun-06							0.00
CH-2	3.1	Jun-06							0.00
NL-16	-36.82	May-06							0.00
Pier25-31	-102.87	May-06							0.00
Pier25-31	-92.37	May-06							0.00
Pier25-31	-52.37	May-06							0.00
Pier25-31	-62.37	May-06							0.00
Pier25-31	-72.37	May-06							0.00
Pier25-31	-82.37	May-06							0.00
Pier25-31	-42.37	May-06							0.00
Pier25-31	-2.37	May-06							0.00
Pier25-31	-12.37	May-06							0.00
Pier25-31	-22.37	May-06							0.00
Pier25-31	-32.37	May-06							0.00
Pier25-33	-43.37	May-06							0.00
Pier25-33	-53.37	May-06							0.00
Pier25-33	-63.37	May-06							0.00
Pier25-33	-73.37	May-06							0.00
Pier25-33	-83.37	May-06							0.00
Pier25-33	-13.37	May-06							0.00
Pier25-33	-23.37	May-06							0.00
Pier25-33	-33.37	May-06							0.00
5106-32	-51.82	May-06							0.00
5106-32	-61.82	May-06							0.00
5106-32	-71.82	May-06							0.00
5106-32	-31.82	May-06							0.00
5106-32	-41.82	May-06							0.00
WW-B4	-93.12	May-06							0.00
5106-31	-64.22	Apr-06							0.00
5106-31	-44.22	Apr-06							0.00
5106-31	-54.22	Apr-06							0.00
5106-31	-6.22	Apr-06							0.00
5106-31	-14.22	Apr-06							0.00
5106-31	-24.22	Apr-06							0.00
5106-31	-34.22	Apr-06							0.00
5106-25	-11.52	Apr-06							0.00
5106-30	-2.4	Apr-06							0.00
5106-30	-60.4	Apr-06							0.00
5106-30	-20.4	Apr-06							0.00
5106-30	-30.4	Apr-06							0.00
5106-30	-40.4	Apr-06							0.00
5106-30	-50.4	Apr-06							0.00
5106-29	-35.67	Apr-06							0.00
5106-29	-45.67	Apr-06							0.00
5106-29	-55.67	Apr-06							0.00
5106-29	-6.67	Apr-06							0.00
5106-29	-15.67	Apr-06							0.00
5106-29	-25.67	Apr-06							0.00
5106-28	-15.9	Apr-06							0.00
5106-28	-25.9	Apr-06							0.00
5106-28	-35.9	Apr-06							0.00
5106-28	-50.9	Apr-06							0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
41-50	-35	Apr-06							0.00
25-50	-36.3	Apr-06							0.00
5106-27	-23.72	Apr-06							0.00
5106-27	-8.72	Apr-06							0.00
5106-27	-13.72	Apr-06							0.00
5106-27	-18.72	Apr-06							0.00
Pier25-32	-71.32	Apr-06							0.00
Pier25-32	-81.32	Apr-06							0.00
56-50	-38.2	Apr-06							0.00
Pier25-32	-47.32	Apr-06							0.00
Pier25-32	-60.32	Apr-06							0.00
Pier25-32	-36.82	Apr-06							0.00
17-50R	-31.1	Apr-06							0.00
Pier25-32	-12.82	Apr-06							0.00
Pier25-32	-23.32	Apr-06							0.00
5106-26	-97.92	Feb-06							0.00
5106-23	-22.42	Feb-06							0.00
5106-23	-27.42	Feb-06							0.00
5106-24	-27.02	Feb-06							0.00
Pier25-29	-14.42	Feb-06							0.00
Pier25-29	-16.42	Feb-06							0.00
Pier25-29	-26.42	Feb-06							0.00
Pier25-29	-46.42	Feb-06							0.00
Pier25-29	-56.42	Feb-06							0.00
Pier25-30	-115.62	Jan-06							0.00
5106-22	-87.02	Jan-06							0.00
5106-22	-97.02	Jan-06							0.00
5106-22	-107.02	Jan-06							0.00
5106-22	-117.02	Jan-06							0.00
5106-22	-127.02	Jan-06							0.00
5106-22	-137.02	Jan-06							0.00
5106-22	-147.02	Jan-06							0.00
Pier25-30	-15.62	Jan-06							0.00
5106-22	-47.02	Jan-06							0.00
5106-22	-57.02	Jan-06							0.00
5106-22	-67.02	Jan-06							0.00
5106-22	-77.02	Jan-06							0.00
Pier25-26	-117.02	Jan-06							0.00
Pier25-26	-27.02	Jan-06							0.00
Pier25-26	-37.02	Jan-06							0.00
Pier25-26	-47.02	Jan-06							0.00
Pier25-22	-109.92	Jan-06							0.00
Pier25-22	-129.92	Jan-06							0.00
5106-19	-146.42	Jan-06							0.00
Pier25-22	-20.32	Jan-06							0.00
Pier25-22	-29.92	Jan-06							0.00
Pier25-22	-39.92	Jan-06							0.00
Pier25-22	-49.92	Jan-06							0.00
Pier25-24	-142.32	Jan-06							0.00
Pier25-24	-152.32	Jan-06							0.00
Pier25-24	-38.72	Jan-06							0.00
Pier25-24	-42.32	Jan-06							0.00
Pier25-24	-52.32	Jan-06							0.00
Pier25-23	-20.22	Jan-06							0.00
Pier25-23	-31.22	Jan-06							0.00

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KUEPER-DAVIES CALCULATION 6
EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

			1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
Pier25-21	-99.82	Jan-06							0.00
Pier25-21	-119.82	Jan-06							0.00
Pier25-21	-129.82	Jan-06							0.00
Pier25-21	-39.82	Jan-06							0.00
Pier25-21	-49.82	Jan-06							0.00
Pier25-21	-59.82	Jan-06							0.00
Pier25-21	-69.82	Jan-06							0.00
Pier25-15	-53.12	Dec-05							0.00
Pier25-18	-164.32	Dec-05							0.00
Pier25-20	-39.72	Dec-05							0.00
Pier25-20	-137.72	Dec-05							0.00
5106-14	-131.82	Dec-05							0.00
5106-14	-136.82	Dec-05							0.00
Pier25-15	-107.72	Dec-05							0.00
Pier25-15	-120.72	Dec-05							0.00
Pier25-14	-107.72	Nov-05							0.00
Dock2-12	-106.42	Nov-05							0.00
Dock2-12	-111.42	Nov-05							0.00
Dock2-12	-116.42	Nov-05							0.00
Dock2-12	-46.42	Nov-05							0.00
Dock2-12	-51.42	Nov-05							0.00
Dock2-12	-61.42	Nov-05							0.00
Dock2-12	-71.42	Nov-05							0.00
Dock2-12	-86.42	Nov-05							0.00
Dock2-12	-91.42	Nov-05							0.00
Dock2-12	-101.42	Nov-05							0.00
5106-10	-156.72	Nov-05							0.00
EA-3	-144.82	Nov-05							0.00
EA-3	-139.82	Nov-05							0.00
EA-3	-119.82	Nov-05							0.00
EA-3	-129.82	Nov-05							0.00
5106-9	-140.92	Nov-05							0.00
5106-9	-145.92	Nov-05							0.00
EA-3	-109.82	Nov-05							0.00
EA-3	-114.82	Nov-05							0.00
EA-3	-99.82	Nov-05							0.00
EA-3	-104.82	Nov-05							0.00
EA-3	-89.82	Oct-05							0.00
EA-3	-94.82	Oct-05							0.00
EA-3	-79.82	Oct-05							0.00
EA-3	-84.82	Oct-05							0.00
EA-3	-54.82	Oct-05							0.00
EA-3	-59.82	Oct-05							0.00
EA-3	-64.82	Oct-05							0.00
EA-3	-69.82	Oct-05							0.00
EA-3	-74.82	Oct-05							0.00
EA-3	-49.82	Oct-05							0.00
Pier25-10	-68.99	Oct-05							0.00
Pier25-9	-148.92	Oct-05							0.00
Pier25-9	-158.92	Oct-05							0.00
EA-3	-29.82	Oct-05							0.00
Pier25-9	-138.92	Oct-05							0.00
Dock2-11	-130.32	Oct-05							0.00
Dock2-11	-135.32	Oct-05							0.00
Dock2-11	-140.32	Oct-05							0.00

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EFFECTIVE SOLUBILITY THRESHOLD
OCCIDENTAL CHEMICAL CORPORATION
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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
Dock2-11	-145.32	Oct-05							0.00
Dock2-11	-55.32	Oct-05							0.00
Dock2-11	-60.32	Oct-05							0.00
Dock2-11	-65.32	Oct-05							0.00
Dock2-11	-70.32	Oct-05							0.00
Dock2-11	-75.32	Oct-05							0.00
Dock2-11	-85.32	Oct-05							0.00
Dock2-11	-90.32	Oct-05							0.00
Dock2-11	-95.32	Oct-05							0.00
Dock2-11	-100.32	Oct-05							0.00
Dock2-11	-105.32	Oct-05							0.00
Dock2-11	-110.32	Oct-05							0.00
Dock2-11	-115.32	Oct-05							0.00
Dock2-11	-120.32	Oct-05							0.00
Dock2-11	-125.32	Oct-05							0.00
5106-6	-128.42	Oct-05							0.00
5106-6	-133.42	Oct-05							0.00
5106-6	-138.42	Oct-05							0.00
5106-6	-143.42	Oct-05							0.00
5106-6	-148.42	Oct-05							0.00
5106-6	-153.42	Oct-05							0.00
Dock2-11	-45.32	Oct-05							0.00
Dock2-11	-50.32	Oct-05							0.00
5106-6	-78.42	Oct-05							0.00
5106-6	-88.42	Oct-05							0.00
5106-6	-93.42	Oct-05							0.00
5106-6	-98.42	Oct-05							0.00
5106-6	-103.42	Oct-05							0.00
5106-6	-108.42	Oct-05							0.00
5106-6	-113.42	Oct-05							0.00
5106-6	-118.42	Oct-05							0.00
5106-6	-123.42	Oct-05							0.00
5106-6	-83.42	Oct-05							0.00
5106-6	-73.42	Oct-05							0.00
5106-11	-147.82	Oct-05							0.00
5106-11	-92.82	Oct-05							0.00
5106-11	-102.82	Oct-05							0.00
5106-11	-107.82	Oct-05							0.00
5106-11	-112.82	Oct-05							0.00
5106-11	-132.82	Oct-05							0.00
5106-11	-142.82	Oct-05							0.00
5106-11	-52.82	Oct-05							0.00
5106-11	-57.82	Oct-05							0.00
5106-11	-67.82	Oct-05							0.00
5106-12	-116.02	Oct-05							0.00
5106-12	-121.02	Oct-05							0.00
5106-12	-126.02	Oct-05							0.00
5106-12	-146.02	Oct-05							0.00
5106-12	-151.02	Oct-05							0.00
5106-12	-101.02	Oct-05							0.00
5106-12	-106.02	Oct-05							0.00
5106-12	-111.02	Oct-05							0.00
5106-12	-56.02	Oct-05							0.00
5106-12	-61.02	Oct-05							0.00
5106-12	-66.02	Oct-05							0.00

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			<i>1,1-DCE</i>	<i>cis-1,2-DCE</i>	<i>PCE</i>	<i>trans-1,2-DCE</i>	<i>TCE</i>	<i>VC</i>	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
5106-12	-71.02	Oct-05							0.00
5106-12	-76.02	Oct-05							0.00
5106-12	-81.02	Oct-05							0.00
5106-12	-86.02	Oct-05							0.00
5106-12	-91.02	Oct-05							0.00
5106-12	-96.02	Oct-05							0.00
EA-1	-136.32	Oct-05							0.00
Pier25-11	-67.7	Oct-05							0.00
HYD-5	-72.29	Oct-05							0.00
HYD-5	-82.29	Oct-05							0.00
HYD-5	-112.29	Oct-05							0.00
HYD-5	-125.79	Oct-05							0.00
HYD-6	-131.81	Oct-05							0.00
HYD-6	-111.81	Oct-05							0.00
5106-3	-148.82	Sep-05							0.00
5106-3	-153.82	Sep-05							0.00
5106-3	-143.82	Sep-05							0.00
5106-3	-128.82	Sep-05							0.00
HYD-10	-129.72	Sep-05							0.00
HYD-10	-39.72	Sep-05							0.00
HYD-10	-49.72	Sep-05							0.00
HYD-10	-59.72	Sep-05							0.00
HYD-10	-109.72	Sep-05							0.00
HYD-10	-119.72	Sep-05							0.00
HYD-7	-115.32	Sep-05							0.00
HYD-7	-125.32	Sep-05							0.00
HYD-7	-135.32	Sep-05							0.00
HYD-7	-95.32	Sep-05							0.00
HYD-7	-105.32	Sep-05							0.00
HYD-9	-105.17	Sep-05							0.00
HYD-9	-95.17	Sep-05							0.00
HYD-8	-117.92	Sep-05							0.00
HYD-9	-55.17	Sep-05							0.00
Dock2-9	-88.02	Sep-05							0.00
HYD-1	-48.12	Aug-05							0.00
HYD-1	-58.12	Aug-05							0.00
HYD-1	-68.12	Aug-05							0.00
HYD-2	-53.62	Aug-05							0.00
HYD-2	-63.62	Aug-05							0.00
Pier25-8	-67.92	Aug-05							0.00
Pier25-7	-169.02	Aug-05							0.00
Pier25-7	-69.02	Aug-05							0.00
Pier25-7	-79.02	Aug-05							0.00
Pier25-7	-119.02	Aug-05							0.00
Dock2-8	-129.12	Aug-05							0.00
Dock2-8	-134.12	Aug-05							0.00
Dock2-8	-144.12	Aug-05							0.00
Dock2-8	-109.12	Aug-05							0.00
Pier25-2	-189.02	Aug-05							0.00
Pier25-6	-159.02	Aug-05							0.00
Pier25-3	-79.92	Aug-05							0.00
Pier25-5	-109.92	Aug-05							0.00
Pier25-5	-115.92	Aug-05							0.00
Pier25-5	-81.42	Aug-05							0.00
Pier25-4	-129.92	Aug-05							0.00

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OCCIDENTAL CHEMICAL CORPORATION
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			1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
5106-7	-125.55	Aug-05							0.00
5106-7	-130.55	Aug-05							0.00
Pier25-4	-79.92	Aug-05							0.00
5106-7	-100.55	Aug-05							0.00
5106-7	-105.55	Aug-05							0.00
5106-7	-110.55	Aug-05							0.00
5106-7	-115.55	Aug-05							0.00
HYD-3	-50.61	Aug-05							0.00
5106-8	-127.02	Aug-05							0.00
5106-8	-132.02	Aug-05							0.00
5106-8	-142.02	Aug-05							0.00
5106-8	-107.02	Aug-05							0.00
5106-8	-117.02	Aug-05							0.00
5106-8	-122.02	Aug-05							0.00
5106-8	-82.02	Aug-05							0.00
Dock2-5	-59.82	Aug-05							0.00
Dock2-5	-64.82	Aug-05							0.00
Dock2-4	-79.02	Jul-05							0.00
Pier25-1	-129.42	Jul-05							0.00
Dock2-3	-63.42	Jul-05							0.00
Dock2-3	-68.42	Jul-05							0.00
Pier25-2	-69.02	Jul-05							0.00
Dock2-2	-62.02	Jul-05							0.00
Dock2-2	-67.02	Jul-05							0.00
Dock2-2	-72.02	Jul-05							0.00
Dock2-2	-77.02	Jul-05							0.00
Dock2-2	-57.02	Jul-05							0.00
Pier25-1	-89.42	Jul-05							0.00
Pier25-1	-69.42	Jul-05							0.00
66-15	-0.75	Jul-04							0.00
66-25	-10.66	Jul-04							0.00
66-50	-35.69	Jul-04							0.00
GP-15	-88.4	Jul-04							0.00
GP-16	-13.4	Jul-04							0.00
GP-16	-38.4	Jul-04							0.00
GP-16	-88.4	Jul-04							0.00
GP-14	-13.4	Jul-04							0.00
GP-14	-38.4	Jul-04							0.00
GP-14	-88.4	Jul-04							0.00
GP-15	-13.4	Jul-04							0.00
GP-15	-38.4	Jul-04							0.00
721-GP4	-38.4	Jun-04							0.00
721-GP4	-13.4	Jun-04							0.00
721-GP6	-13.4	Jun-04							0.00
721-GP7	-13.4	Jun-04							0.00
721-GP7	-38.4	Jun-04							0.00
721-GP8	-13.4	Jun-04							0.00
721-GP8	-38.4	Jun-04							0.00
721-GP9	-13.4	Jun-04							0.00
721-GP9	-38.4	Jun-04							0.00
721-GP1	-13.4	Jun-04							0.00
721-GP1	-38.4	Jun-04							0.00
721-GP3	-3.4	Jun-04							0.00
721-GP3	-13.4	Jun-04							0.00
721-GP3	-38.4	Jun-04							0.00

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			1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	VC	Cumulative mole fraction in groundwater
	Region 9 solubility (µg/L)		2420000	6410000	206000	452000	1280000	8800000	
721-GP2	-13.4	Jun-04							0.00
721-GP2	-38.4	Jun-04							0.00
721-PZ-1	-10.9	Jun-04							0.00
GP-4	-11.4	Apr-04							0.00
GP-4	-44.4	Apr-04							0.00
GP-4	-88.4	Apr-04							0.00
GP-12	-88.4	Apr-04							0.00
GP-5	-13.4	Apr-04							0.00
GP-5	-38.4	Apr-04							0.00
GP-6	-38.4	Apr-04							0.00
GP-12	-13.4	Apr-04							0.00
GP-12	-38.4	Apr-04							0.00
GP-13	-84.4	Apr-04							0.00
GP-6	-13.4	Apr-04							0.00
GP-1	-13.4	Apr-04							0.00
GP-1	-38.4	Apr-04							0.00
GP-1	-88.4	Apr-04							0.00
GP-13	-13.4	Apr-04							0.00
GP-13	-36.4	Apr-04							0.00
GP-7	-88.4	Mar-04							0.00
GP-8	-13.4	Mar-04							0.00
GP-8	-38.4	Mar-04							0.00
GP-8	-88.4	Mar-04							0.00
GP-2	-38.4	Mar-04							0.00
GP-2	-88.4	Mar-04							0.00
GP-7	-13.4	Mar-04							0.00
GP-7	-38.4	Mar-04							0.00
GP-2	-13.4	Mar-04							0.00
GP-3	-13.4	Mar-04							0.00
GP-3	-38.4	Mar-04							0.00
GP-3	-88.4	Mar-04							0.00
GP-10	-13.4	Mar-04							0.00
GP-10	-34.4	Mar-04							0.00
GP-10	-88.4	Mar-04							0.00
GP-11	-88.4	Mar-04							0.00
GP-9	-88.4	Mar-04							0.00
GP-9	-13.4	Mar-04							0.00
28-15	1	Mar-04							0.00
38-55	-37.7	Mar-04							0.00
NAVY-1-04	-5.3	Jan-04							0.00
NAVY-2-04	-7.3	Jan-04							0.00

Appendix S2

Residual DNAPL Delineation, Dated 7/2/14 (NSAT Memo) - Weston Solutions, Inc.

Residual DNAPL Delineation

Dated 7/2/14

1 Introduction

In conjunction with EPA and the Washington State Department of Ecology, Weston Solutions, Inc. has prepared this technical memorandum as an overview of efforts to estimate the distribution of residual DNAPL saturation beneath the Occidental Chemical Corporation (OCC) Alexander Avenue Site (Site) in Tacoma, Washington. As described in the Site Characterization Report prepared by Conestoga-Rovers & Associates (CRA), residual DNAPL beneath the Site is associated with the manufacturing and handling of chlorinated solvents (TCE and PCE) produced at the Site from 1947 to 1973. The former TCE/PCE processing area was located in the northern portion of the OCC property (see Figure 3.2).

The purpose of this evaluation was to use available data to quantify the amount and location of DNAPL residing beneath the site as accurately as possible. The rationale behind the analysis is that the depth, thickness, connectedness, and mass of residual DNAPL saturation may have significant implications for the selection of remedial alternatives. The following is a list of the questions this evaluation attempted to answer:

1. Where does the bulk of chlorinated VOC (cVOC) mass reside?
2. What is the total residual DNAPL mass?
3. How does this estimate compare with CRA's kriged soil grid mass?

2 Methods

NAPL distribution and mass were estimated by incorporating both soil and groundwater data. The analysis was performed according to the following general procedure:

1. Query the eDAT database for the pertinent data
2. Estimate residual NAPL saturations for individual samples based on equilibrium partitioning
3. Interpolate the residual saturation data and perform sensitivity analysis
4. Calculate best estimate NAPL volumes and mass with bounding values from sensitivity runs

2.1 Data Evaluation

The concentrations of the five target cVOCs (TCE, PCE, cis-DCE, trans-DCE, and VC) in both saturated soil and groundwater samples were extracted from the eDAT database using a crosstab query in Microsoft Access. These data were symbolized by matrix and concentration and superimposed on CRA's updated 4-code geologic model and cVOC plumes to determine whether the data distributions could be explained by the current hydrostratigraphic interpretation. Additional information (stratigraphic logs, pH, density, hydraulic conductivity, and dye test results) were also incorporated into 3D, plan view, and cross-section formats along with the cVOC data to facilitate inspection of potential data gaps from

several perspectives. For simplicity, the term “residual NAPL saturation” will henceforth be referred to as NSAT.

2.2 NSAT Computation

Concentrations of cVOCs in soil samples having a CRA derived Kueper-Davies (K-D) value of greater than or equal to (\geq) 0.1 were used as input to the NAPLCALC software (Rucker, 2003) to produce estimates of NSAT at each sample location. NAPLCALC was developed for the Savannah River project as a modern alternative to the NAPLANAL software (Mariner, 1997) and fixes an issue in NAPLANAL that caused false positive NAPL indication at low (<100 mg/kg) soil concentrations. Another reason NAPLCALC was used is that it accepts input concentrations on either a wet- or dry-weight basis whereas NAPLANAL requires wet-weight concentrations. Both NAPLANAL and NAPLCALC use equilibrium partitioning theory to sequentially derive the concentrations of each cVOC in the aqueous, air, and sorbed phases from the whole-soil concentrations. Once the various phases are saturated in a highly contaminated sample, the remaining mass is assigned to the NAPL phase. If a NAPL phase is determined to be present, the mole fraction and mass of each analyte in the NAPL is reported as well the NAPL residual saturation (NSAT), mass, and density in the sample. Both software take into account the mole fractions of each analyte during determination of effective water solubilities and use a linear isotherm for partitioning onto organic carbon present in the soil. Competition for sorption sites among analytes is ignored. The pertinent equilibrium constants (solubility [S], octanol-carbon partitioning coefficient [K_{oc}], and dimensionless Henry’s Law constant [H’]) in NAPLCALC’s default database were replaced with USEPA Region 9 PRGs for consistency with CRA’s K-D calculations.

NAPLCALC also requires volumetric water content (θ_v) and/or porosity (n), depending on level of saturation, as well as a fraction of organic carbon (foc) for each sample in order to derive an NSAT. The water content determined for each of the analytical soil samples was measured gravimetrically rather than volumetrically however. Gravimetric water content (θ_g) can be converted to θ_v using the density of the porewater (ρ_w) and the dry bulk density of the soil (ρ_b) according to Equation 2.1. However, the geotechnical samples collected for the analysis of ρ_b and other properties were not as numerous as the analytical soil samples and were rarely collocated with them. This was also true of the samples collected for foc analysis. In order to generate the necessary input data for NAPLCALC, the sample-specific ρ_b and foc values were used where they existed. Where they were missing, texture-based averages based on the geotechnical samples were used instead. In order to obtain texture-based averages, the sample coordinates of all geotechnical and foc samples were used to query CRA’s 4-code kriged geologic grid. The geometric means were subsequently derived based on sample subsets having the same texture code. CRA’s groundwater density grid was similarly queried, this time using the coordinates of the analytical soil samples themselves, to obtain the sample-specific ρ_w required by Equation 2.1. The calculation of porosity (n) is given in Equation 2.2, where particle density (ρ_p) is assumed to be 2.65-g/cm³. Lastly, wet-weight concentrations were calculated for input to NAPLCALC using Equation 2.3 because NAPLCALC cannot calculate these correctly since it does not actually use θ_g as a direct input.

$$\theta_v = \theta_g \frac{\rho_b}{\rho_w} \quad \text{Equation 2.1}$$

$$n = 1 - \frac{\rho_b}{\rho_p} \quad \text{Equation 2.2}$$

$$C_w = C_d(1 - \theta_g) \quad \text{Equation 2.3}$$

NAPL-CALC is a spreadsheet designed to calculate NSAT for a single sample at a time so a Visual Basic for Applications (VBA) macro was composed inside the spreadsheet to automate the calculations for the 348 OCC soil samples with $K-D \geq 0.1$. An input file consisting of both wet-weight cVOC concentrations for each sample and the accompanying geotechnical information (both derived and calculated) was constructed and inserted into the spreadsheet as a new worksheet. The macro populated the input cells with the appropriate data and then recorded the calculated NSAT on the new worksheet. The results were then joined with the coordinates of the samples to create an input file for the interpolation process. Soil samples with $K-D < 0.1$ were appended to the input file and assigned an NSAT of zero. A large portion of the site ($x < 4085$ and $y > 6130$) contained groundwater samples without any accompanying soil samples. In order to reduce interpolation errors resulting from a lack of NSAT values derived from soil data, the groundwater data in this box having a $K-D < 0.1$ were also appended to the NSAT input file and treated as zeroes for constraining the interpolation.

2.3 NSAT Interpolation

Weston used the EarthVision 8.2 3D geospatial modeling package by Dynamic Graphics to interpolate the NSAT values and to calculate volumes of the resultant plume at various thresholds. Interpolations were performed using ordinary kriging (Deutsch and Journel, 1992), which is a type of kriging that assumes stationarity (the mean and spatial dependence of the property of interest are uniform across the site). While these assumptions are not perfectly satisfied at this site, other variations of kriging are substantially more involved and require ancillary inputs that are themselves somewhat subjective. EarthVision's default minimum tension algorithm was also briefly considered for the interpolation because it has relatively few input variables and is therefore extremely easy to implement. However, these inputs are based entirely on a visual fit of the resulting plume to the data rather than on any measures of spatial dependence and the results are highly sensitive to the grid resolution used, which is optimized based on sample distribution. The highly variable sample density (both horizontal and vertical) of OCC NSAT data makes it difficult to select a minimum tension grid resolution that performs well in all areas of the site. Ordinary kriging was consequently selected as the interpolator because it is relatively easy to implement, is less subjective than some other methods, and is insensitive to the grid resolution selected.

Kriging is an exact interpolator that employs a variogram model to assign weights to input data points based on a spatial dependence identified in the data. The spatial dependence is inspected through construction of experimental variograms that show how the variance for numerous pairs of points changes as a function of distance and direction. Data exhibiting a spatial dependence have a low variance at short distances and increasing variance out to a maximum distance (the range) at which the spatial dependence is indecipherable from the population variance (the sill). Anisotropy is present if the variogram model ellipse requires different range values along any of its three principle axes to fit the

data. Grouping of points for variogram model-fitting is achieved by assigning distance and direction (both azimuth and inclination) intervals as well as a maximum bandwidth for each direction.

Variogram modeling was performed on experimental variograms of log-transformed NSAT data. The transformation was necessitated by a log-normal distribution of the data. Grouping of data for experimental variogram calculation was achieved using a distance interval of 25-ft up to a maximum distance of 1000-ft, which is approximately half of the maximum possible distance between any two data points. Angular intervals of 22.5° and 10° degrees were used for the azimuth and inclination respectively. Both distance and angular tolerance values were set equal to half the bin size and maximum bandwidths of 200 and 10 were used for the azimuth and inclination respectively. Once the variogram model was fit to the data, ordinary kriging was performed on the data using the variogram model to predict values at each node in a 25-ft (horizontal) by 0.25-ft (vertical) resolution grid. The kriged grid was then back-transformed to produce a plume model in normal concentration space.

The plume model was then processed to obtain estimates of the theoretical NAPL volume present within each horizontal grouping plane. This was achieved by partitioning the NSAT plume into isoshells using NSAT values of 0.1, 0.2, 0.5, 1, 2, 5, 10, and 20 percent (%). Each isoshell was then dissected by the boundaries of each grouping plane. The volume of each isoshell and grouping plane combination were calculated by EarthVision, multiplied by the average NSAT (divided by 100) for the shell, and also multiplied by a site average porosity of 0.43 to obtain an approximate theoretical NAPL volume within the shell. The volume and mass for each shell were finally integrated for each grouping plane and for the site as a whole to answer questions about mass distribution.

2.4 Sensitivity Analysis

A sensitivity analysis was performed in an attempt to bound the mass and volume estimates, which incorporate numerous decisions about both sample properties and interpolation parameters that could be debated. The sensitivity exercise entailed repeating the NSAT calculations using different combinations of NAPL-CALC inputs and different assumptions about the spatial dependence of the results. The following sets of sample and chemical properties were used as input to NAPL-CALC to produce four different populations of NSAT results:

1. Comparison of a) sample-specific ρ_w , ρ_b , and f_{oc} versus b) sitewide average $\theta_v = n = 0.43$ and $f_{oc} = 0.003$, and
2. Comparison of a) Region 9 PRG equilibrium constants versus b) values supplied by Ketawaters.

The minimum and maximum NSAT value at each sample from among the four possible combinations of input parameters was calculated to produce alternate populations of data representing the likely range of values. The combination of 1a and 2a was considered the “Best Estimate” for this exercise.

The “Best Estimate”, min, and max NSAT populations were then interpolated using a variety of variogram models to produce a spectrum of kriged NSAT plumes. The horizontal variogram ranges used were based on experimental variogram fitting. The vertical variogram range used was based on a visual fit of the resulting plumes to the data. NAPL volume and mass estimates were then generated for all

kriged distributions and summarized using a Microsoft Excel pivot table to determine the minimum and maximum likely mass estimates for bounding the “Best Estimate”.

3 Results

3.1 NSAT Computation

A query was composed inside eDAT that: a) computed K-D values for all soil samples from target cVOCs concentrations and Region 9 equilibrium constants, b) returned only those samples with $K-D \geq 0.1$, and c) attached gravimetric moisture and other geotechnical data, where present. A second query was composed to compute texture-based averages of θ_g , ρ_b , and f_{oc} based on a spatial query of CRA’s kriged 4-code texture grid. These results are summarized in Table 3.1. A third query was composed to: a) populate the analytical samples with information from Table 3.1 where necessary, b) append ρ_w estimates extracted from CRA’s density plume, and c) calculate θ_v , n , and wet-weight cVOC concentrations, according to Equations 2.1, 2.2, and 2.3 respectively.

The results of this final query were then input to NAPL CALC for NSAT computation using an automated process that appended the results to the input table. For simplicity, the NSAT input and output was combined and provided as Table 3.2. For brevity, only the samples with $K-D \geq 1$ (NSAT of $\sim 0.01\%$) are provided. Figure 3.1 illustrates the linear correlation between K-D and NSAT. Texture-based averages from Table 3.1 are denoted in Table 3.2 using gray highlighting whereas actual sample data are denoted without highlighting. It should be mentioned that the NSAT for the sample with the highest K-D value was actually estimated from the regression equation in Figure 3.1. NAPL CALC could not compute an NSAT for this sample because the high cVOC concentrations yielded more NAPL than the available pore space based on the input θ_v and n . This particular sample used a texture-based average ρ_b to calculate both θ_v and n that was likely lower than the ρ_b of the insitu sample. Although several properties of all samples have likely been modified through the collection process, NAPL CALC was able to produce an NSAT for the remaining samples because the cVOC concentrations were much lower in them.

Table 3.2 also contains the results of the NSAT sensitivity runs. The first of the sensitivity runs, which combines variable sample properties with Region 9 PRGs, represents the “Best Estimate” run because it attempts to make use of all available site information. The other sensitivity runs reflect changes in NSAT computations resulting from different assumptions about both the sample and chemical properties required by NAPL CALC. The min and max columns in Table 3.2 represent the endpoints of the likely range of NSAT based on all four sensitivity runs. The endpoints are generally within 25% of the best estimate where $NSAT \geq 0.1$ but there are some exceptions to this. The “Best Estimate” tends to fall much closer to the low end of the range. The primary reason for this is the use of unsaturated samples in the calculations. Although the samples were saturated insitu, some drainage occurred by the time they were analyzed in the laboratory. Assuming saturated samples with a porosity of 0.43 has a more significant impact than altering the equilibrium constants for the various cVOCs. NSATs for unsaturated samples using Ketawaters’ equilibrium constants are generally $\leq 5\%$ different from the “Best Estimate” scenario for samples with $NSAT \geq 0.5\%$. There were differences of up to 20% for samples with

0.5% \geq NSAT \geq 0.1% but these are less significant since 0.1% is the lowest isoshell incorporated into volume estimates.

The “Best Estimate” scenario in Table 3.2 contains 48 samples for which NSAT exceeded 0.1% and half exceeded 0.5%. Fifteen samples had NSAT \geq 1% and the majority of these are within, or to the north of, the TCE/PCE processing area at depths of 100 feet or more. Figure 3.2 summarizes the distribution of NSAT values exceeding 0.1% in the vicinity of the TCE/PCE processing area. The two highest NSAT values are >20% and occur at ~135-ft deep in borings WMUR-06 and -10, which are 130-ft apart. The most distal plant northward occurrences of elevated NSAT were at MW-H and EXT-9. The NSAT was ~1% at the 145-ft depth in each of these locations. The distribution of NSAT values depicted in Figure 3.2 and cross-section Q-Q’ on Figure 3.4 suggests that DNAPL migrated nearly vertically from suspected source areas near WMU B (the former railcar storage area) within the TCE/PCE processing area, and possibly near Dock 1.

3.2 NSAT Interpolation

The “Best Estimate” NSAT values were interpolated with ordinary kriging using an anisotropic spherical variogram model. Figure 3.3 shows the visual fit of the model to the experimental variogram resulting in a horizontal range of 500-ft. Figure 3.3 also shows that ranges of 300 and 800-ft approximate the edges of the variogram cloud. The sensitivity analysis entailed application of each of these variograms to each of the NSAT data sets (“Best Estimate”, min, and max). The vertical range could not be deciphered from the experimental variogram and was consequently determined based upon the degree of lateral connectivity predicted among elevated NSAT data in the 130-ft grouping plane. The true lateral connectivity is unknown due to the sparsity of data at this depth but the presence of elevated NSAT at approximately the same elevation in all five of the deep borings within a 300-ft radius of SB-B suggests that these elevated NSAT occurrences may be connected. A vertical range of 2-ft (anisotropy=250), produced the most lateral continuity of the NSAT plume in the 130-ft grouping plane and was therefore selected as the most appropriate vertical range for mass calculations. An anisotropy of 250 is 12.5 times higher than the 20-fold anisotropy used to krig the dissolved phase plumes but the NSAT data indicate very thin seams of potential NAPL and are consistent with a conceptual model of DNAPL moving along the top of a low conductivity barrier to vertical migration.

Figure 3.4 depicts the “Best Estimate” NSAT plume kriged using the 500-ft by 2-ft variogram range combination. The upper panel shows the 3D plume stripped to an NSAT of 1% with a basemap beneath showing the extent of the 0.1% contour as well as the maximum NSAT distribution within the plume. This basemap also shows the location of the transect line used to create the profile view shown in the lower panel of Figure 3.4. The kriged plumes resulting from the sensitivity analysis endpoints (variogram range of 300 applied to the NAPL/CALC min values and variogram range of 800 applied to the NAPL/CALC max values) are presented in Figures 3.5 and Figure 3.6. The minimum sensitivity endpoint depicted in Figure 3.5 is smaller than the “Best Estimate” plume in Figure 3.4 with less connectivity between samples of similar NSAT. Conversely, Figure 3.6 depicts a plume that is broader with more lateral connectivity. The high anisotropy employed for all scenarios produces plumes that are very lenticular with relatively poor vertical connectivity between the various lenses. Even the small vertical separation of elevated NSAT detections in EXT-9 and MW-H is enough to cause the plume to partition at the 0.5%

level. More comprehensive plan and cross-sectional views of the kriged “Best Estimate” plume are provided in the layered pdfs included in Appendix V of the Site Characterization Report.

As mentioned in Section 2.3, the stationarity assumption of ordinary kriging is likely violated at this site due to the complex structural control on DNAPL migration. In other words, the variogram model required to achieve reasonable connectivity between the sparse elevated NSAT values in the 130-ft grouping plane (representing primarily lateral migration across a large site area) is not the same as that required to adequately represent the NSAT distribution in the former TCE/PCE processing area, where breaches in the low conductivity layers have allowed vertical migration of DNAPL from the suspected sources to these substantial depths. Because the variogram model was optimized for fitting the data in the 130-ft grouping plane, ordinary kriging likely over predicts the lateral extent of NSAT lenses at shallower depths in the former TCE/PCE processing area. However, the calculations presented in Section 3.3 will show that these overestimates have only a small impact on the overall mass estimates due to the relatively small contributions of the shallower zones to the total.

3.3 Mass Estimates

The distribution of NSAT mass beneath the site was evaluated by synthesizing the NSAT plume volumes for all kriging sensitivity runs, including the “Best Estimate” scenario. The volumes for each scenario, broken down by grouping plane and isoshell, were obtained using the EarthVision software and summarized using a Microsoft Excel pivot table. The NSAT model volumes for each isoshell were converted to DNAPL volumes by multiplying the midpoint NSAT value for each isoshell by a sitewide average porosity of 0.43. The DNAPL volume was then converted to mass using a NAPL density of 1.58-g/cm³ and the appropriate unit conversions.

The total mass for each of the nine sensitivity runs is presented in Table 3.3. The best fit variogram model applied to the “Best Estimate” NAPL CALC values yielded 275,000 kg. Sensitivity runs that account for uncertainty in the modeled variogram range and the NAPL CALC inputs yielded mass estimates ranging from 148,000 kg to 491,000 kg (50% lower to 85% higher than the “Best Estimate”). The mass estimates are more sensitive to variogram model selection than to the NAPL CALC input parameters. The overall range in mass estimates was 343,000 kg and all estimates are within a factor of two of the “Best Estimate”. The “Best Estimate” was close to the average of 295,000 kg and the coefficient of variation (CV) was 0.4 for the group of nine runs. All sensitivity runs were compared with CRA’s kriged soil total cVOC (TCVOC) mass of 381,000 kg. The “Best Estimate” NSAT mass was 72% of the estimated TCVOC mass and the sensitivity analysis endpoints were 39% and 129%, respectively.

The kriged mass distribution for the “Best Estimate” and the two endpoint sensitivity runs are broken down by isoshell and grouping plane in Table 3.4. With the exception of the highest isoshell (20%), the mass is distributed relatively evenly among the various isoshells used to depict the plumes. The highest isoshell contains very little mass because the log-transform of the data yielded small 20% contours around each of the two highest values in the data set. The log-transformation prevents the model from connecting these points above an NSAT of ~8%. Regardless of the scenario, approximately 70% of the total predicted mass is contained in the 130-ft grouping plane. These results indicate that, although the

total kriged mass is uncertain, the trends in the distribution are similar among the various sensitivity runs.

4 Conclusions

The distribution of calculated NSAT values is consistent with the conceptual model of how DNAPL may have migrated from known source areas according to the complex distribution of geologic strata of variable grain sizes within a largely deltaic depositional environment examined during the data evaluation phase. It appears that a pathway for vertical migration exists just plant-north of the former railcar storage area that allowed DNAPL to move vertically from the suspected source areas to depths of 130 – 150 feet below ground surface. Low-permeability lenses near the base of the 130-ft grouping plane (see Figure 3.4) may have enabled lateral spreading of the DNAPL to the north and west.

The “Best Estimate” NSAT mass of 275,000 kg is 72% of the kriged soil TCVOC mass. Sensitivity analysis suggests that this “Best Estimate” could be off by as much as a factor of two. The sensitivity analysis also indicates that the spatial dependence model used for the kriging affects the resulting mass estimate more than the uncertainty in sample properties used to calculate the NSAT values. Regardless of the magnitude of the mass estimate, all sensitivity runs suggest that the bulk of the mass is contained in the 130-ft grouping plane.

The mass associated with the maximum sensitivity run endpoint is 30% higher than the kriged soil TCVOC mass but this does not necessarily mean the estimate is unreasonably high. The mass based upon the soil TCVOC grid may be too low. Just as the log-transformation of NSAT data prior to kriging may under predict the size of the most elevated regions in the NSAT grid, the log-transformation and relatively low anisotropy (20x) used to krig the TCVOC soil concentrations likely under predicts the plume connectivity between the highest concentration samples. The kriging parameters used to model the soil TCVOC plume were optimized for interpolation of the plume as a whole whereas the 250-fold anisotropy used to krig the NSAT data were optimized for interpolation of the very highest soil concentrations. The TCVOC concentrations at which NSAT begins to be predicted at significant levels (≥ 0.1) is approximately 500 mg/kg. The kriged soil TCVOC grid is reasonably well connected at the 100 ppm level but not at the 500 ppm level. NAPL-CALC phase partitioning indicates that, when NAPL is predicted to be present, the majority of the mass associated with that sample is in the NAPL phase. It therefore stands to reason that the best estimates of TCVOC mass beneath the site might be based on interpolations that best honor the highest concentrations in the data set. Modifying the kriging parameters to better honor high TCVOC concentrations in soil may result in a poor prediction of the low concentration region.

The NSAT modeling is designed to complement the soil and groundwater modeling as an alternative depiction of the portion of the cVOC plume most pertinent to accurate mass estimation. The spatial dependence employed for NSAT modeling may have been significantly different than that used to model the soil and ground water concentrations. A sensitivity analysis was performed in an attempt to assign likely bounds on the mass estimates but did not encompass the entire range of possible values. More

data would be required to better understand what that range might be and improve the TCVOC mass estimate but is not considered necessary to complete the site remedial investigation.

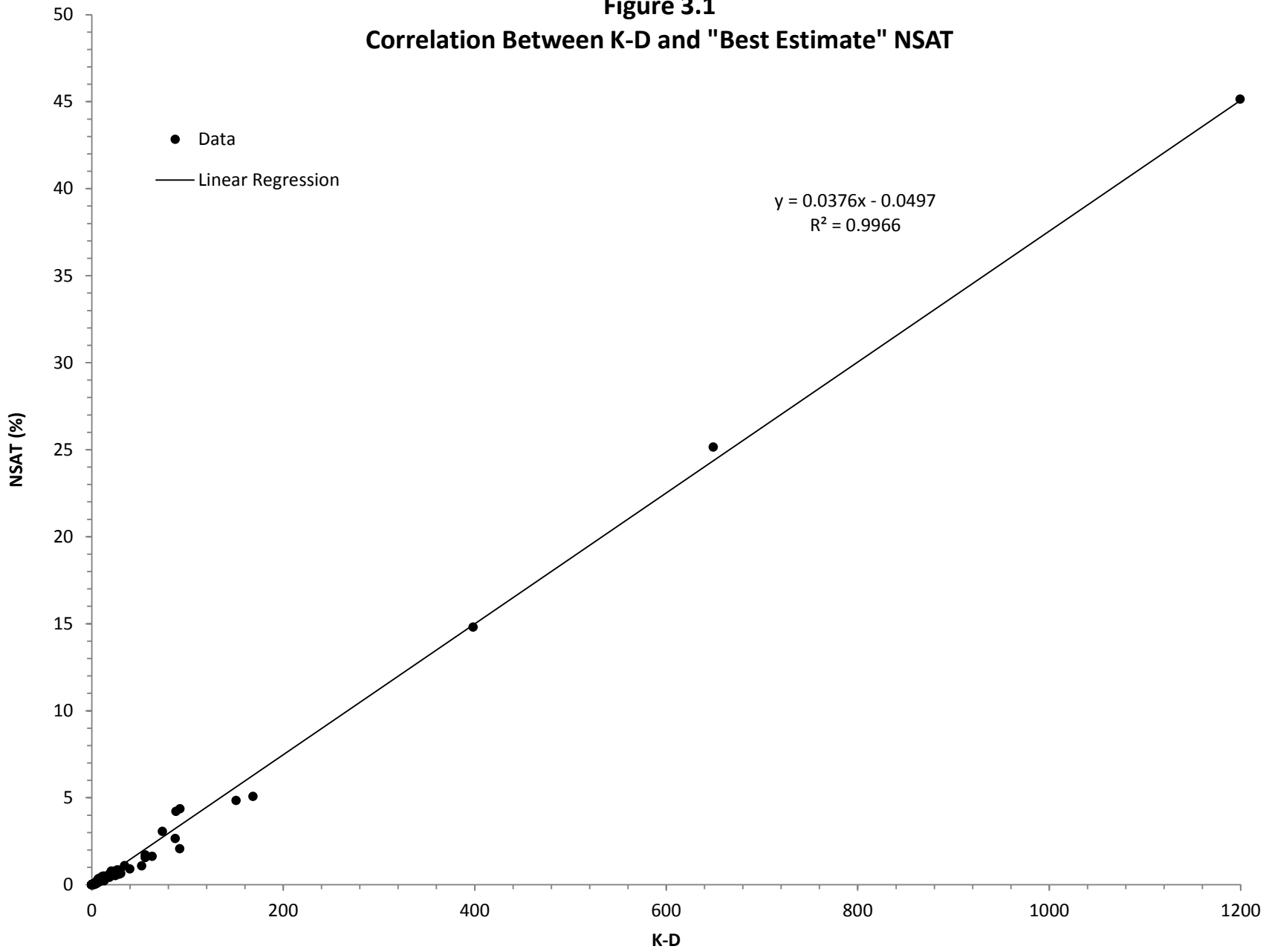
5 References

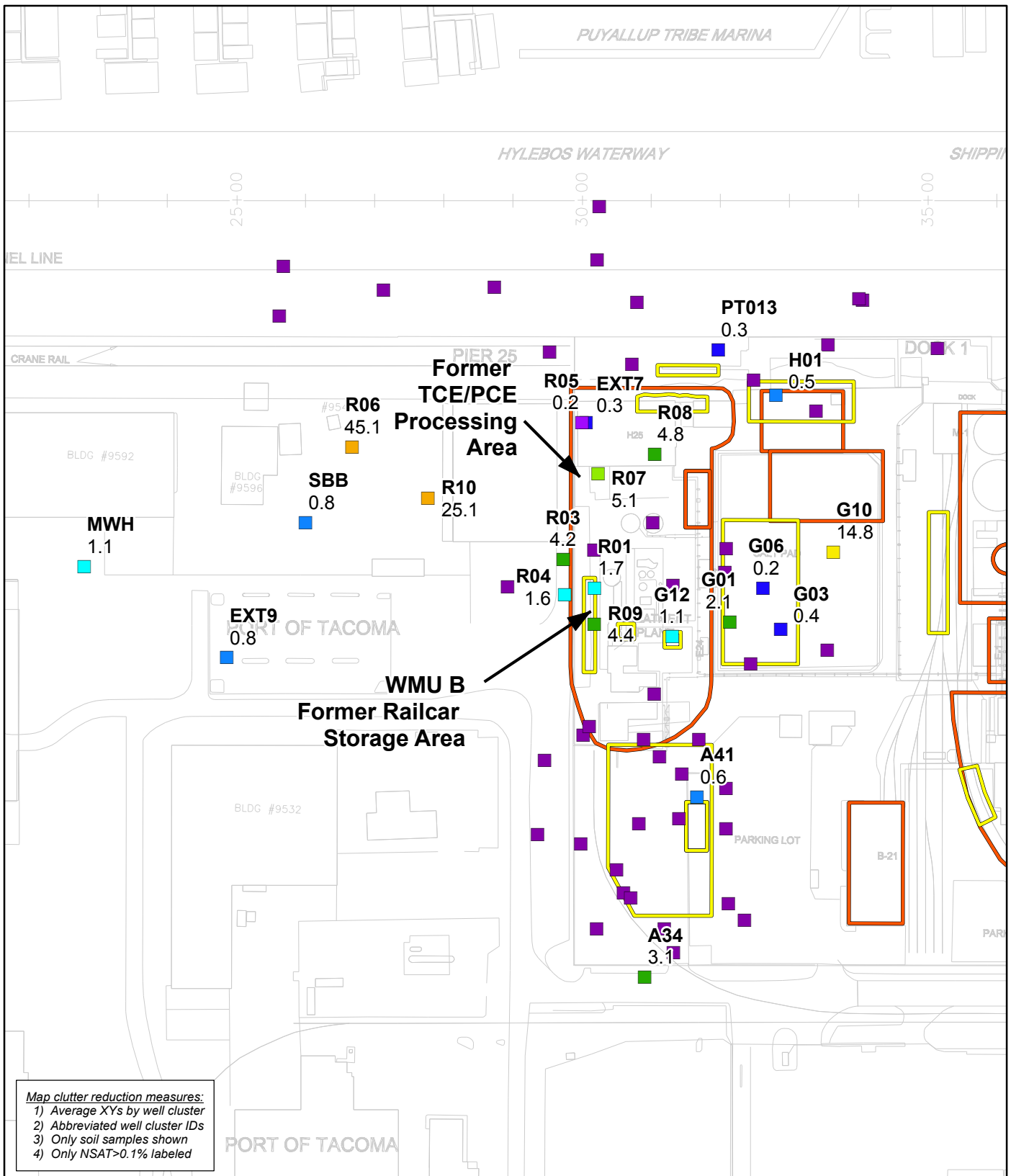
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Rucker, 2003. Method and Software to Determine and Quantify Non-Aqueous Phase Liquids in Environmental Media. Gregory G. Rucker. OSR 45-24#. August 2003.

Figure 3.1
Correlation Between K-D and "Best Estimate" NSAT





Legend

	Basemap	NSAT (%)		2	
	Waste Units		< 0.1		5
	Chemical Activities Areas		0.1		10
	Positive dye test		0.2		20
			0.5		50
			1		

WESTON SOLUTIONS

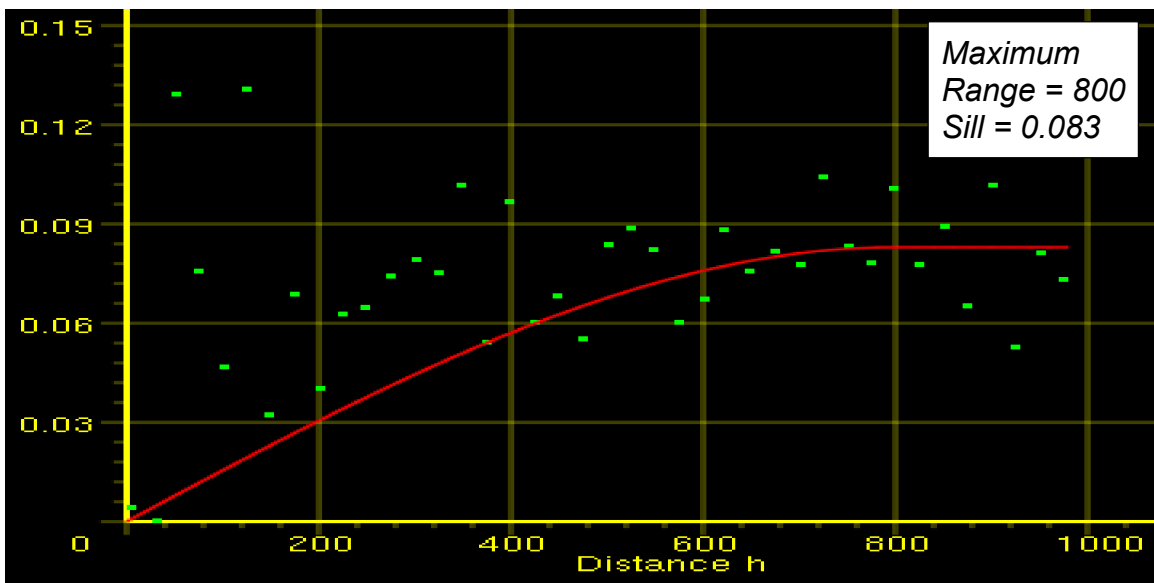
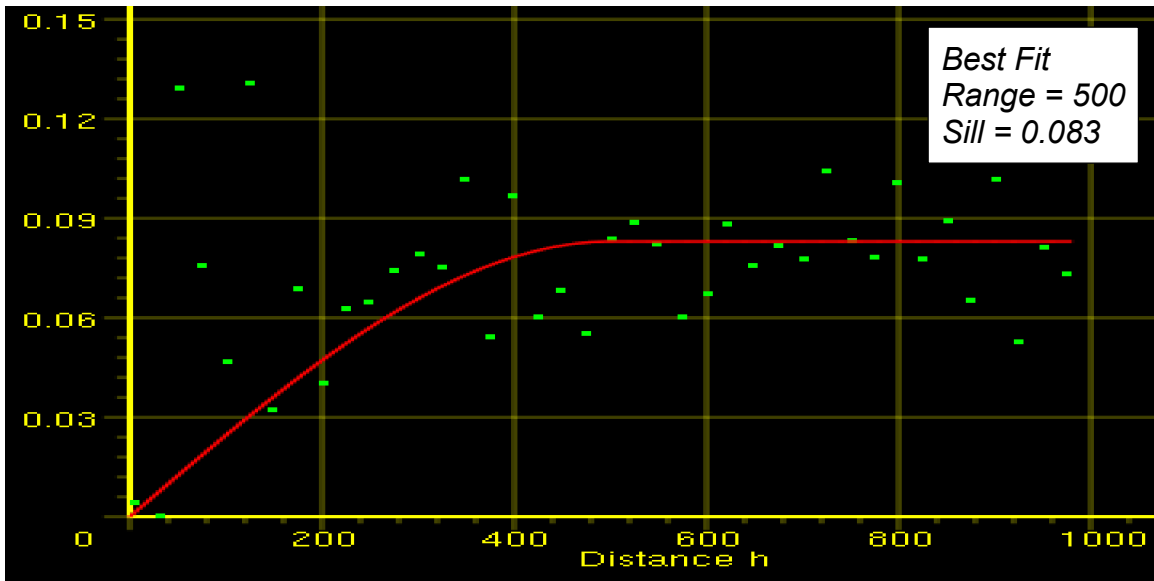
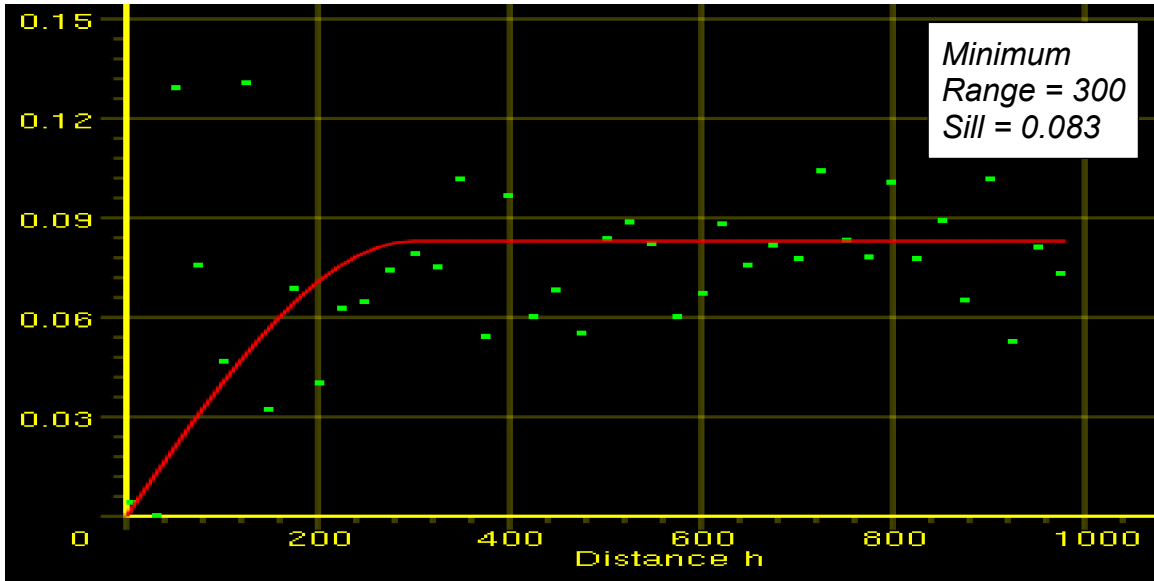
1:2,400

Feet

0 50 100 200

Figure 3.2
Maximum Computed NSAT by Borehole

Occidental Site
 Tacoma, WA



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Figure 3.3 NSAT Variogram Modeling

Legend

Geologic Zone

- Unsaturated
- Non-Glacial
- Glacial

Stratigraphy (4-code)

- Sand and Gravel (3,4,7)
- Silty Sand (2,6)
- Sandy Silt (1)
- Clayey Silt, Low K
Glacial (0,5,8)

- Positive Dye Tests

NSAT=0

- GW
- Soil

NSAT (%)

- 0.1
- 0.2
- 0.5
- 1
- 2
- 5
- 10
- 20
- 50

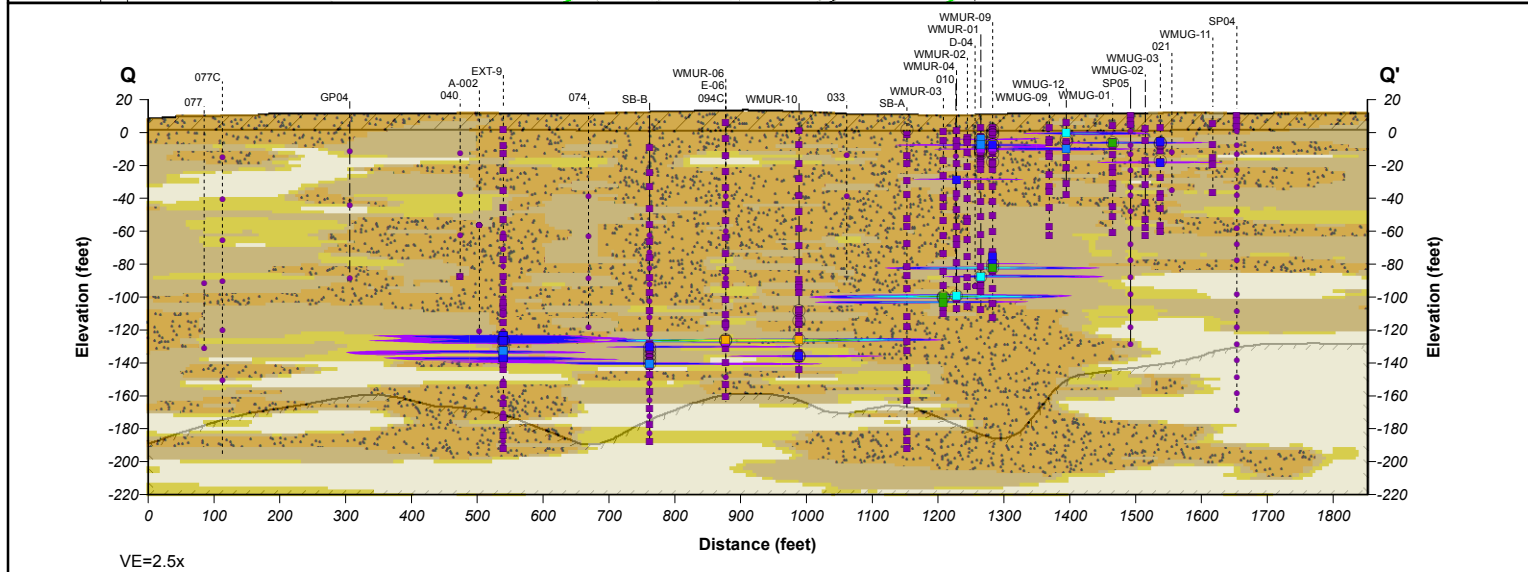
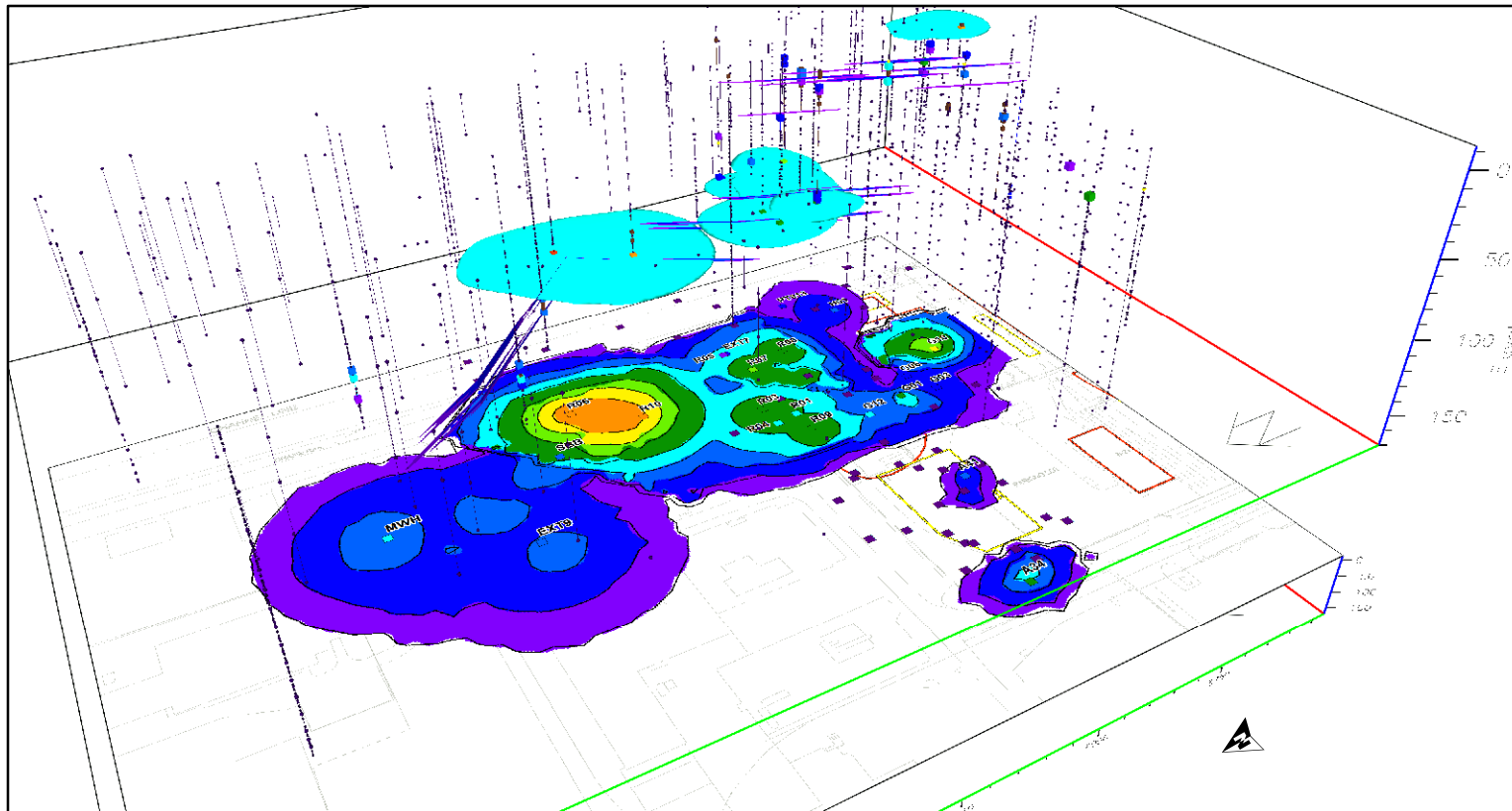


Figure 3.4
Best Estimate
NSAT Plume

Occidental Site
Tacoma, WA



Legend

Geologic Zone

- Unsaturated
- Non-Glacial
- Glacial

Stratigraphy (4-code)

- Sand and Gravel (3,4,7)
- Silty Sand (2,6)
- Sandy Silt (1)
- Clayey Silt, Low K Glacial (0,5,8)

- Positive Dye Tests

NSAT=0

- GW
- Soil

NSAT (%)

- 0.1
- 0.2
- 0.5
- 1
- 2
- 5
- 10
- 20
- 50

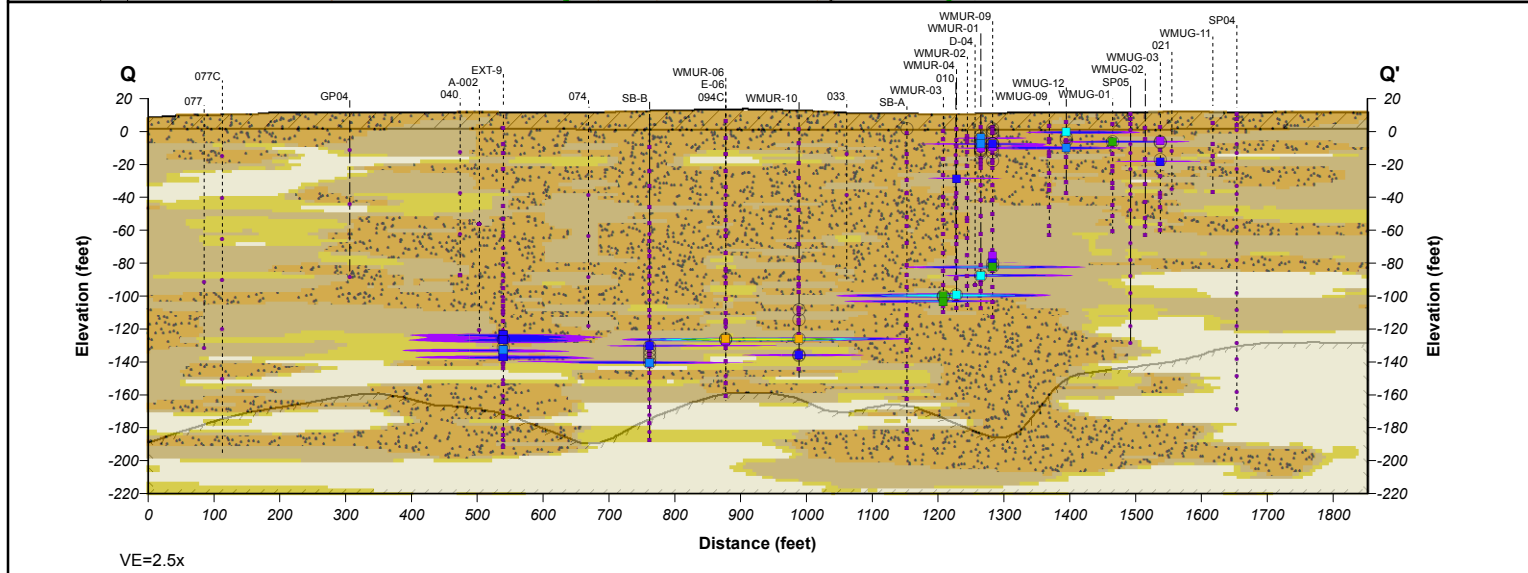
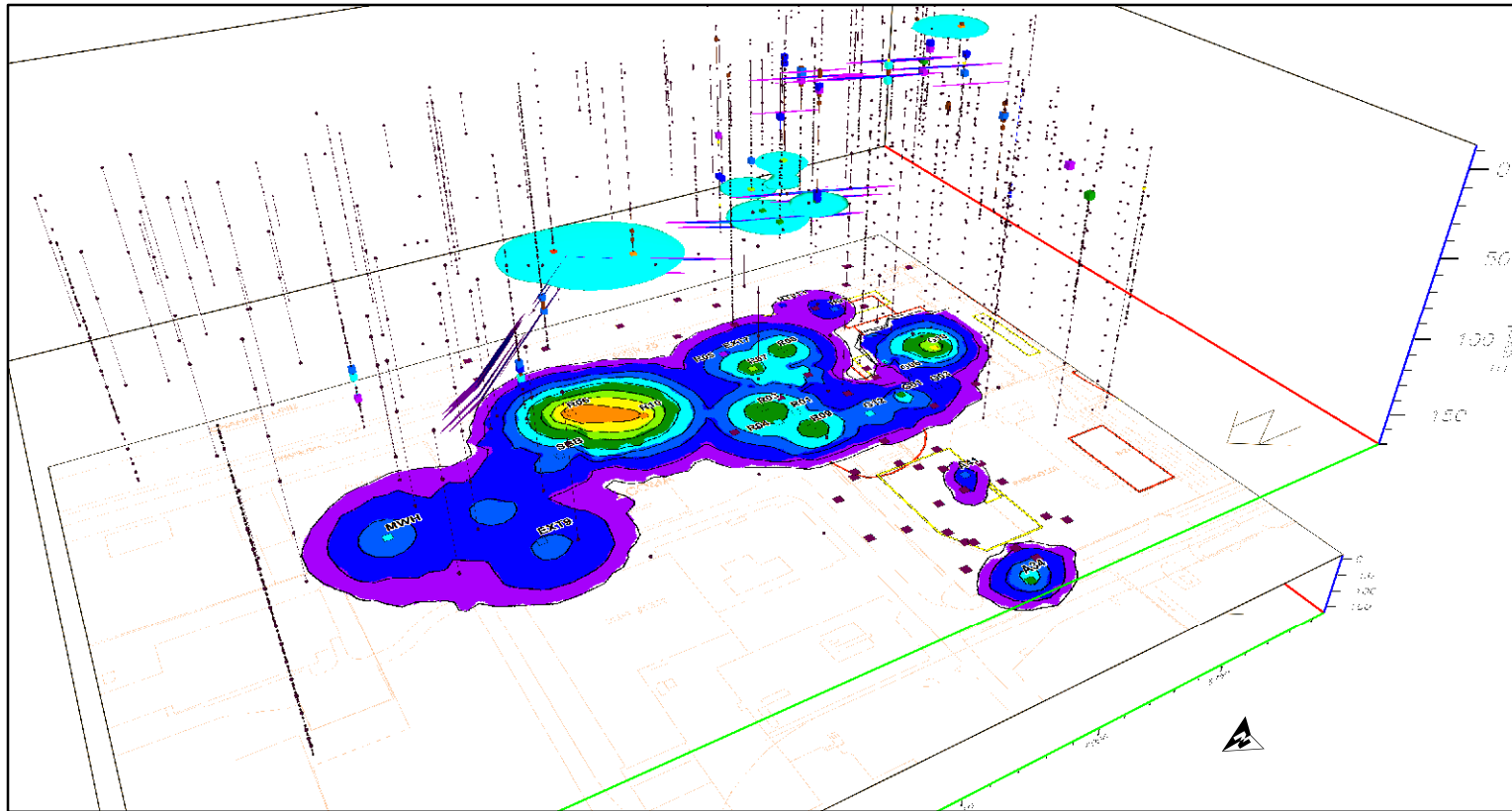


Figure 3.5
Minimum
NSAT Plume

Occidental Site
Tacoma, WA



Legend

Geologic Zone

- Unsaturated
- Non-Glacial
- Glacial

Stratigraphy (4-code)

- Sand and Gravel (3,4,7)
- Silty Sand (2,6)
- Sandy Silt (1)
- Clayey Silt, Low K
Glacial (0,5,8)
- Positive Dye Tests

NSAT=0

- GW
- Soil

NSAT (%)

- 0.1
- 0.2
- 0.5
- 1
- 2
- 5
- 10
- 20
- 50

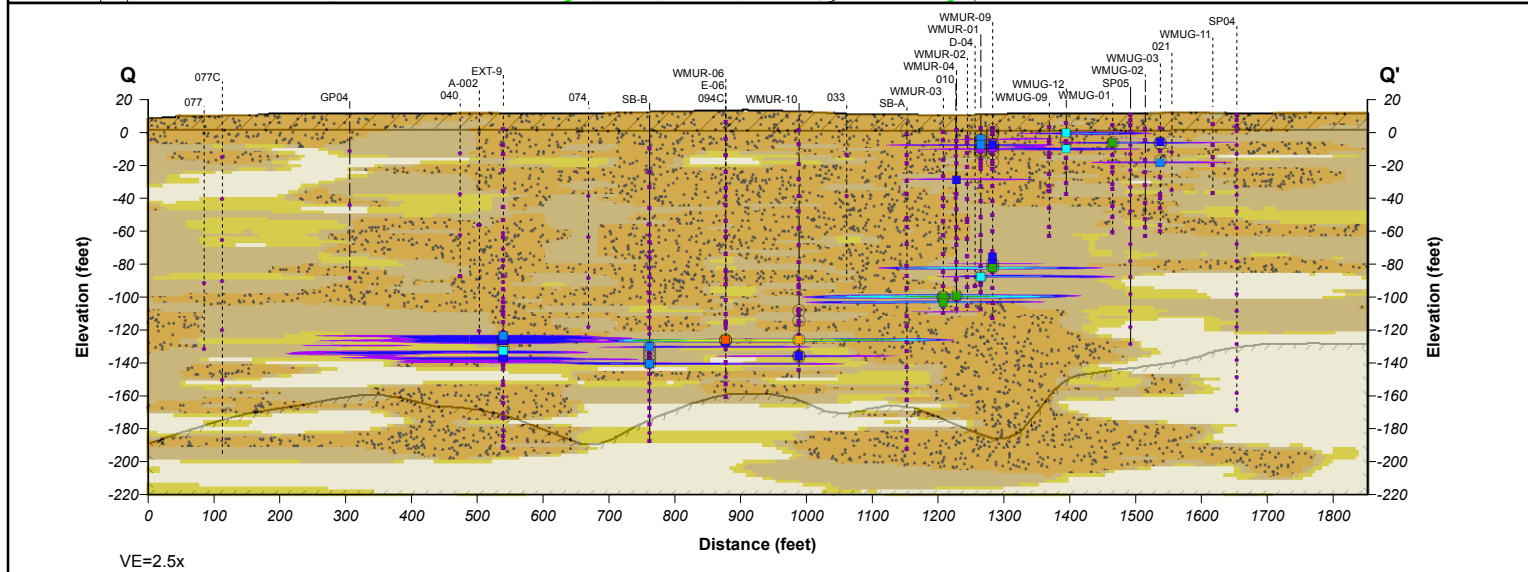
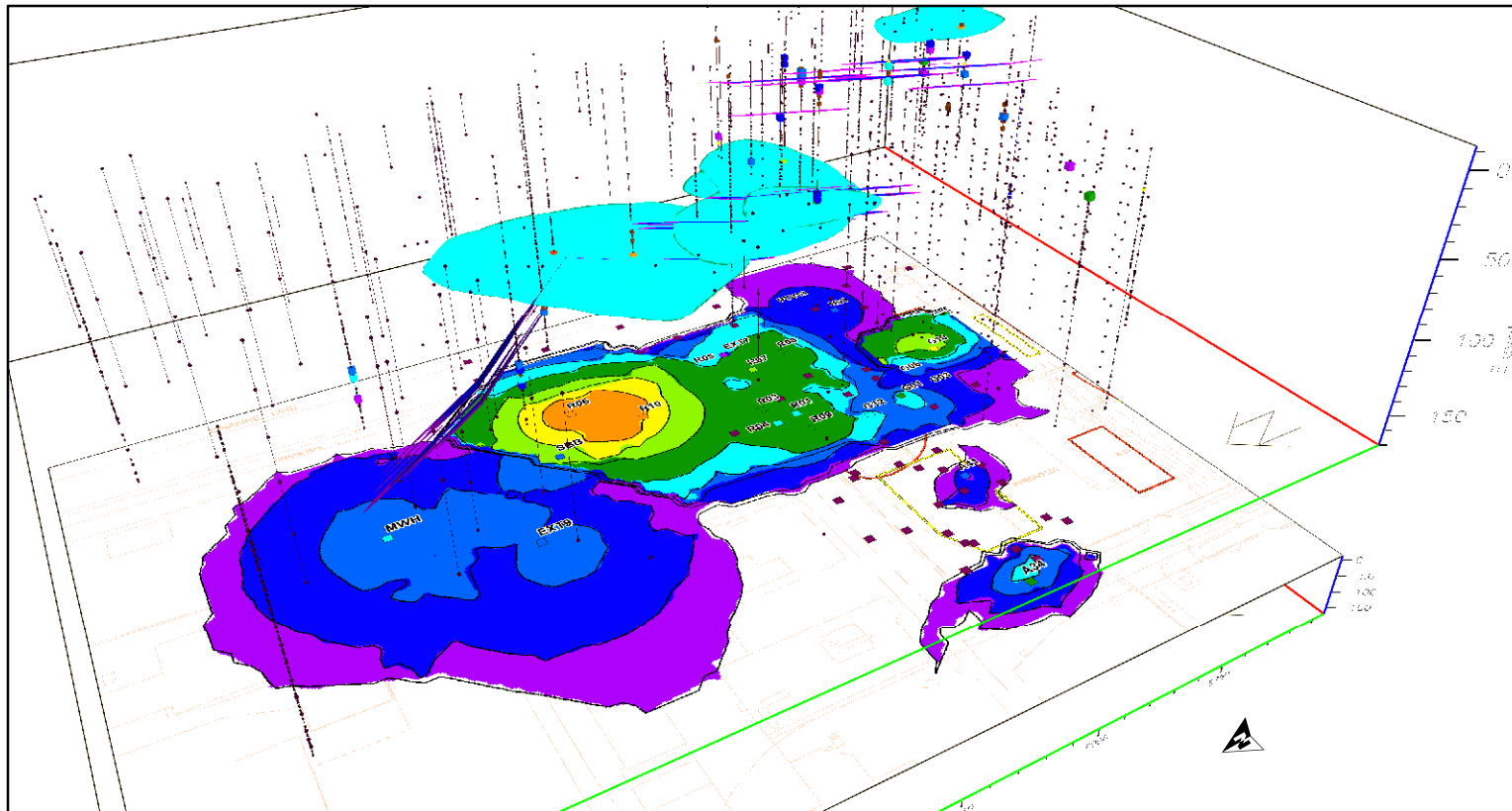


Figure 3.6
Maximum
NSAT Plume

Occidental Site
Tacoma, WA

Table 3.1
Texture Based Averages of NAPL/CALC Input Parameters

Matrix	Input	Units	Texture	Count	Min	Max	Mean	Geomean
SatSoil	foc	kg/kg	1	6	0.0023	0.0140	0.0078	0.0064
			2	19	0.0009	0.0180	0.0056	0.0041
			3	30	0.0004	0.0223	0.0048	0.0029
	θ_g	kg/kg	0	39	5.7	39.7	20.9	18.9
			1	92	9	39	22.5	22.0
			2	275	10	41	22.4	22.0
			3	388	4	42	19.6	19.0
	ρ_b	lb/ft3	0	6	82.9	142.6	110.3	108.3
			1	4	68.7	96.2	82.2	81.6
			2	17	82	104	95.6	95.4
3			16	56.2	104	93.7	92.8	
Soil	foc	kg/kg	3	14	0.0002	0.0084	0.0024	0.0013
	θ_g	lb/ft3	2	4	8	16	10.5	10.1
			3	128	4	24	11.8	10.5

CRA Texture Codes:

- 0 Clayey Silt or Low-K Glacial
- 1 Sandy Silt
- 2 Silty Sand or Med-K Glacial
- 3 Sand and/or Gravel or High-K Glacial

Table 3.2
Residual NAPL Saturation (NSAT) Calculations
Results < 0.01% not shown

Sample Attributes							Physical Properties						Dry-Weight Concentrations (mg/kg)						Kueper-Davies Value	NSAT (%)								
Location ID	Sample Midpoint (feet)		Saturated	Sample Date	Depth Zone	4-Code Texture Class	Porewater		Bulk Density	Porosity	foc	Water Content		Total	PCE	TCE	cDCE	tDCE		VC	Sitewide n, foc PRGs for S, Koc, H'	Best Estimate	Sensitivity Runs			Likely Range Analysis		
	Depth	Elevation					Density ρ_w (lb/ft ³)	Specific Gravity	ρ_b lb/ft ³	n ft ³ /ft ³	kg/kg	θ_g (g/g)	θ_v (ft ³ /ft ³)									Variable n, θ_v , foc PRGs for S, Koc, H'	Sitewide n, foc PRGs for S, Koc, H'	Variable n, θ_v , foc Ketawaters S, Koc, H'	Sitewide n, foc Ketawaters S, Koc, H'	Min	Max	Max % Diff. from Best Estimate
WMUR-06_94C	137.5	-126.21	Y	5/23/2012	130	2	67.01	1.07	95.41	0.42	0.0041	0.22	0.31	174,410	120,000	53,000	580	140	0	1199	45.13	53.72	45.06	53.68	45.06	53.72	19	
WMUR-10	136.5	-126.11	Y	9/11/2012	130	3	68.26	1.09	92.82	0.44	0.0029	0.20	0.27	110,710	61,000	49,000	530	0	0	649	25.14	28.35	25.12	28.32	25.12	28.35	13	
WMUG-10	19	-7.07	Y	7/12/2012	25	1	64.33	1.03	81.62	0.51	0.0064	0.29	0.37	90,000	32,000	58,000	0	0	0	399	14.80	20.31	14.76	20.29	14.76	20.31	37	
WMUR-07	119.9	-109.04	Y	8/16/2012	130	1	70.72	1.13	81.62	0.51	0.0064	0.21	0.25	32,017	15,000	17,000	9	8	0	168	5.06	7.51	5.03	7.49	5.03	7.51	48	
WMUR-08	109.9	-99.07	Y	8/15/2012	100	2	69.14	1.11	95.41	0.42	0.0041	0.23	0.31	22,468	15,000	7,200	0	250	0	151	4.84	5.04	4.81	5.02	4.81	5.04	4	
WMUR-09	94	-82.12	Y	9/6/2012	100	2	65.17	1.04	95.41	0.42	0.0041	0.23	0.33	19,739	7,700	12,000	39	0	0	92.4	4.36	4.49	4.34	4.47	4.34	4.49	3	
WMUG-01	19	-6.23	Y	5/31/2012	25	2	64.38	1.03	95.41	0.42	0.0041	0.26	0.38	10,120	10,000	120	0	0	0	92.1	2.07	2.08	2.03	2.05	2.03	2.08	2	
WMUR-03	109.8	-100.02	Y	6/18/2012	130	2	69.25	1.11	95.41	0.42	0.0041	0.19	0.26	18,888	7,400	11,000	460	11	8	88.0	4.21	4.50	4.19	4.48	4.19	4.50	7	
WMUR-03	113	-103.22	Y	6/18/2012	130	2	69.90	1.12	95.41	0.42	0.0041	0.20	0.27	12,409	8,800	3,600	9	0	0	87.4	2.64	2.81	2.61	2.79	2.61	2.81	6	
WMUA-34	15.5	-3.12	Y	7/17/2012	25	3	62.43	1.00	92.82	0.44	0.0029	0.23	0.34	14,838	6,400	8,400	38	0	0	74.0	3.06	3.31	3.04	3.29	3.04	3.31	8	
WMUR-04	109.5	-99.14	Y	6/20/2012	100	1	68.73	1.10	81.62	0.51	0.0064	0.22	0.26	10,926	5,900	5,000	26	0	0	63.2	1.63	2.43	1.59	2.41	1.59	2.43	49	
WMUR-01	99.5	-87.67	Y	6/16/2012	100	2	66.26	1.06	95.41	0.42	0.0041	0.25	0.36	8,422	5,600	2,500	300	2	18	56.1	1.71	1.74	1.68	1.73	1.68	1.74	2	
WMUR-01	99.5	-87.67	Y	6/16/2012	100	2	66.26	1.06	93.90	0.43	0.0100	0.25	0.35	8,422	5,600	2,500	300	2	18	56.1	1.56	1.74	1.49	1.73	1.49	1.74	12	
WMUG-12	12.5	-0.46	Y	8/17/2012	25	3	63.39	1.02	92.82	0.44	0.0029	0.26	0.39	5,725	5,700	25	0	0	0	52.4	1.08	1.14	1.05	1.11	1.05	1.14	6	
WMUR-07	98	-87.14	Y	8/15/2012	100	2	66.59	1.07	95.41	0.42	0.0041	0.24	0.35	4,515	4,300	190	14	0	11	39.9	0.90	0.92	0.86	0.89	0.86	0.92	4	
MW-H-01	145.5	-134.57	Y	6/25/2013	130	1	66.30	1.06	81.62	0.51	0.0064	0.26	0.32	7,773	2,800	4,900	55	9	2	34.6	1.09	1.61	1.06	1.59	1.06	1.61	47	
WMUA-41	17	-3.65	Y	6/12/2012	25	3	62.65	1.00	92.82	0.44	0.0029	0.24	0.35	3,377	3,300	77	0	0	0	30.5	0.63	0.68	0.61	0.66	0.61	0.68	8	
MW-EXT-9-DEEP	145	-132.86	Y	7/16/2013	130	1	68.44	1.10	81.62	0.51	0.0064	0.30	0.36	6,436	2,500	3,700	200	22	1	29.7	0.83	1.21	0.80	1.20	0.80	1.21	47	
WMUR-01	16	-4.17	Y	6/15/2012	25	3	62.98	1.01	92.82	0.44	0.0029	0.23	0.34	3,188	3,100	88	0	0	0	28.7	0.60	0.65	0.57	0.62	0.57	0.65	8	
WMUG-12	22	-9.96	Y	8/17/2012	25	3	63.89	1.02	92.82	0.44	0.0029	0.12	0.17	4,224	2,600	1,600	19	0	2	26.8	0.85	1.00	0.83	0.98	0.83	1.00	18	
WMUH-01	19.25	-7.65	Y	6/8/2004	25	3	63.36	1.01	92.82	0.44	0.0029	0.19	0.28	2,732	2,700	19	13	0	0	24.9	0.52	0.58	0.50	0.56	0.50	0.58	12	
SB-B-DEEP	151	-140.45	Y	8/9/2013	160	2	69.31	1.11	95.41	0.42	0.0041	0.17	0.23	3,825	2,100	1,700	23	0	0	22.4	0.76	0.83	0.74	0.81	0.74	0.83	9	
SB-B-DEEP	151	-140.45	Y	8/9/2013	160	2	69.31	1.11	95.41	0.42	0.0041	0.17	0.24	3,825	2,100	1,700	23	0	0	22.4	0.77	0.84	0.74	0.82	0.74	0.84	9	
WMUR-01	19.5	-7.67	Y	6/15/2012	25	3	62.94	1.01	92.82	0.44	0.0029	0.20	0.30	3,200	2,000	1,200	0	0	0	20.5	0.77	0.66	0.72	0.64	0.64	0.77	17	
WMUR-01	19.5	-7.67	Y	6/15/2012	25	3	62.94	1.01	104.00	0.37	0.0050	0.20	0.33	3,200	2,000	1,200	0	0	0	20.5	0.60	0.66	0.58	0.64	0.58	0.66	10	
WMUG-03	29.9	-18.12	Y	5/23/2012	25	1	64.06	1.03	81.62	0.51	0.0064	0.14	0.18	3,101	1,800	1,300	0	0	0	18.9	0.42	0.69	0.38	0.67	0.38	0.69	65	
MW-H-01	140.5	-129.57	Y	6/24/2013	130	1	65.42	1.05	81.62	0.51	0.0064	0.26	0.32	4,661	1,400	3,200	48	6	1	18.7	0.60	0.91	0.57	0.89	0.57	0.91	52	
WMUR-10	146.3	-135.91	Y	9/12/2012	160	2	67.19	1.08	95.41	0.42	0.0041	0.24	0.34	2,280	1,800	300	180	0	0	17.2	0.40	0.42	0.37	0.40	0.37	0.42	8	
WMUG-03	17.7	-5.92	Y	5/23/2012	25	2	63.94	1.02	95.41	0.42	0.0041	0.32	0.47	1,570	1,400	170	0	0	0	13.2	0.22	0.26	0.19	0.23	0.19	0.26	19	
PT-13	14	-49.2	Y	6/9/2004	75	3	64.07	1.03	92.82	0.44	0.0029	0.19	0.27	1,449	1,400	49	NS	NS	NS	13.0	0.26	0.29	0.24	0.27	0.24	0.29	13	
SB-B-DEEP	141	-130.45	Y	8/8/2013	130	2	66.72	1.07	95.41	0.42	0.0041	0.17	0.24	2,642	1,100	1,500	34	3	0	12.8	0.49	0.54	0.47	0.52	0.47	0.54	9	
MW-EXT-9-DEEP	149	-136.86	Y	7/16/2013	160	1	71.94	1.15	81.62	0.51	0.0064	0.23	0.26	2,597	1,000	1,500	89	3	0	11.9	0.28	0.47	0.25	0.46	0.25	0.47	67	
WMUG-06	16	-4.07	Y	6/1/2012	25	2	64.40	1.03	95.41	0.42	0.0041	0.29	0.43	1,454	1,200	250	2	0	2	11.5	0.23	0.24	0.20	0.21	0.20	0.24	15	
MW-EXT-9-DEEP	135.5	-123.36	Y	7/15/2013	130	2	66.95	1.07	95.41	0.42	0.0041	0.18	0.25	2,588	930	1,600	50	5	2	11.5	0.47	0.51	0.45	0.50	0.45	0.51	9	
PT-13	19	-54.2	Y	6/9/2004	75	1	64.36	1.03	81.62	0.51	0.0064	0.22	0.28	2,160	960	1,200	NS	NS	NS	11.0	0.23	0.39	0.20	0.37	0.20	0.39	70	
WMUR-09	19.5	-7.62	Y	9/5/2012	25	3	62.94	1.01	92.82	0.44	0.0029	0.23	0.33	1,411	960	450	1	0	0	9.6	0.22	0.24	0.20	0.22	0.20	0.24	9	
MW-EXT-9-INT	138.5	-126.55	Y	8/23/2013	130	2	66.63	1.07	95.41	0.42	0.0041	0.18	0.26	2,048	750	1,200	85	7	0	9.1	0.34	0.37	0.32	0.36	0.32	0.37	9	
WMUR-09	87.5	-75.62	Y	9/6/2012	100	2	65.11	1.04	95.41	0.42	0.0041	0.22	0.33	1,415	810	600	5	0	0	8.5	0.22	0.23	0.19	0.21	0.19	0.23	13	
WMUR-04	38.9	-28.54	Y	6/19/2012	50	2	63.84	1.02	95.41	0.42	0.0041	0.28	0.41	2,370	560	1,700	110	0	0	8.3	0.36	0.38	0.34	0.36	0.34	0.38	6	
WMUR-05_83C	89	-77.54	Y	6/7/2012	100	2	65.31	1.05	95.41	0.42	0.0041	0.24	0.35	1,010	840	89	68	1	11	7.9	0.16	0.17	0.13	0.14	0.13	0.17	20	
WMUR-06_94C	138.6	-127.31	Y	5/23/2012	130	2	66.90	1.07	95.41	0.42	0.0041	0.21	0.31	1,286	730	540	10	1	0	7.7	0.19	0.20	0.16	0.18	0.16	0.20	15	
WMUR-01	22	-10.17	Y	6/15/2012	25	3	62.94	1.01	92.82	0.44	0.0029	0.20	0.30	908	810	98	0	0	0	7.6	0.14	0.16	0.12	0.13	0.12	0.16	16	
WMUR-05_83C	119	-107.54	Y	6/8/2012	130	1	70.24	1.13	81.62	0.51	0.0064	0.18	0.21	1,773	560	1,200	10	1	0	7.3	0.17	0.31	0.14	0.30	0.14	0.31	88	
EXT-7	121	-109.85	Y	9/4/2013	130	2	70.58	1.13	95.41	0.42	0.0041	0.17	0.23	1,995	470	1,500	23	1	0	7.0	0.33	0.37	0.31	0.35	0.31	0.37	10	
WMUR-09	91.5	-79.62	Y	9/6/2012	100	2	65.06	1.04	95.41	0.42	0.0041	0.23	0.34	1,649	540	1,100	9	0	0	6.9	0.24	0.26	0.21	0.24	0.21	0.26	10	
WMUR-09	21.5	-9.62	Y	9/5/2012	25	3	62.95	1.01	92.82	0.44	0.0029	0.18	0.27	1,221	530	690	1	0	0	6.1	0.18	0.19	0.16	0.17	0.16	0.19	9	
WMUA-36	13	-0.36	Y	5/18/2012	25																							

Table 3.2
Residual NAPL Saturation (NSAT) Calculations
Results < 0.01% not shown

Sample Attributes							Physical Properties						Dry-Weight Concentrations (mg/kg)						Kueper-Davies Value	NSAT (%)								
Location ID	Sample Midpoint (feet)		Saturated	Sample Date	Depth Zone	4-Code Texture Class	Porewater		Bulk Density	Porosity	foc	Water Content		Total	PCE	TCE	cDCE	tDCE		VC	Sitewide n, foc PRGs for S, Koc, H'	Best Estimate	Sensitivity Runs			Likely Range Analysis		
	Depth	Elevation					Density ρ _w (lb/ft ³)	Specific Gravity	ρ _b lb/ft ³	n ft ³ /ft ³	kg/kg	θ _g (g/g)	θ _v (ft ³ /ft ³)									Variable n, θ _v , foc PRGs for S, Koc, H'	Sitewide n, foc PRGs for S, Koc, H'	Variable n, θ _v , foc Ketawaters S, Koc, H'	Sitewide n, foc Ketawaters S, Koc, H'	Min	Max	Max % Diff. from Best Estimate
SB-B-DEEP	145	-134.45	Y	8/8/2013	130	2	67.44	1.08	95.41	0.42	0.0041	0.16	0.22	809	330	460	15	1	1	3.9	0.04	0.05	0.02	0.02	0.02	0.05	54	
SB-B-DEEP	145	-134.45	Y	8/8/2013	130	2	67.44	1.08	95.41	0.42	0.0041	0.16	0.23	809	330	460	15	1	1	3.9	0.08	0.09	0.05	0.07	0.05	0.09	32	
WMUG-03	16.7	-4.92	Y	5/23/2012	25	3	63.86	1.02	92.82	0.44	0.0029	0.33	0.48	427	420	7	0	0	0	3.9	0.08	0.09	0.05	0.07	0.05	0.09	32	
WMUR-07	123	-112.14	Y	8/16/2012	130	1	71.21	1.14	81.62	0.51	0.0064	0.20	0.22	651	320	330	1	0	0	3.5	0.03	0.06	0.02	0.05	0.02	0.06	82	
WMUG-03	29.2	-17.42	Y	5/23/2012	25	0	64.05	1.03	108.28	0.35	0.0029	0.18	0.30	601	280	320	0	0	0	3.2	0.08	0.06	0.06	0.04	0.04	0.08	43	
WMUR-01	14.5	-2.67	Y	6/15/2012	25	3	62.99	1.01	92.82	0.44	0.0029	0.23	0.33	340	340	0	0	0	0	3.1	0.01	0.04	0.00	0.02	0.00	0.04	322	
WMUR-01	14.5	-2.67	Y	6/15/2012	25	3	62.99	1.01	94.50	0.43	0.0090	0.23	0.34	340	340	0	0	0	0	3.1	0.04	0.04	0.02	0.02	0.02	0.04	62	
WMUG-12	43	-30.96	Y	8/17/2012	50	2	64.60	1.03	95.41	0.42	0.0041	0.25	0.36	501	300	200	1	0	0	3.1	0.05	0.05	0.02	0.03	0.02	0.05	46	
MW-EXT-9-INT	143	-131.05	Y	8/23/2013	130	2	66.99	1.07	95.41	0.42	0.0041	0.15	0.21	444	310	130	3	0	0	3.1	0.05	0.06	0.02	0.04	0.02	0.06	48	
WMUR-01	28	-16.17	Y	6/15/2012	25	2	63.37	1.02	95.41	0.42	0.0041	0.20	0.30	422	310	110	2	0	0	3.0	0.04	0.05	0.02	0.03	0.02	0.05	57	
WMUR-01	103	-91.17	Y	6/16/2012	100	2	67.01	1.07	95.41	0.42	0.0041	0.23	0.33	739	280	160	290	1	7	3.0	0.06	0.07	0.04	0.05	0.04	0.07	24	
MW-EXT-9-DEEP	127.5	-115.36	Y	7/15/2013	130	2	67.21	1.08	95.41	0.42	0.0041	0.21	0.29	676	240	400	32	2	2	2.9	0.04	0.05	0.03	0.04	0.03	0.05	26	
WMUR-06_94C	142.5	-131.21	Y	5/23/2012	130	1	66.68	1.07	81.62	0.51	0.0064	0.19	0.23	718	210	490	16	0	0	2.8	0.03	0.05	0.01	0.04	0.01	0.05	105	
WMUG-12	43	-30.96	Y	8/17/2012	50	2	64.60	1.03	95.41	0.42	0.0041	0.25	0.36	431	270	160	1	0	0	2.8	0.04	0.04	0.02	0.03	0.02	0.04	58	
SB-A	9	-1.12	Y	7/16/2013	25	3	62.70	1.00	92.82	0.44	0.0029	0.25	0.38	292	290	2	0	0	0	2.7	0.03	0.03	0.00	0.00	0.00	0.03	86	
WMUR-04	57	-46.64	Y	6/19/2012	50	3	63.68	1.02	92.82	0.44	0.0029	0.25	0.37	550	250	150	140	1	10	2.6	0.04	0.05	0.03	0.04	0.03	0.05	23	
WMUG-03	18.7	-6.92	Y	5/23/2012	25	3	64.01	1.03	92.82	0.44	0.0029	0.23	0.33	327	270	57	0	0	0	2.6	0.03	0.04	0.01	0.01	0.01	0.04	62	
SB-B-DEEP	149.5	-138.95	Y	8/8/2013	160	2	68.90	1.10	95.41	0.42	0.0041	0.17	0.23	572	210	350	10	1	0	2.6	0.04	0.04	0.03	0.03	0.03	0.04	31	
SB-B-DEEP	149.5	-138.95	Y	8/8/2013	160	2	68.90	1.10	95.41	0.42	0.0041	0.17	0.24	572	210	350	10	1	0	2.6	0.04	0.04	0.03	0.03	0.03	0.04	31	
WMUR-09	84	-72.12	Y	9/6/2012	75	2	65.18	1.04	95.41	0.42	0.0041	0.22	0.33	433	230	200	3	0	0	2.5	0.03	0.04	0.02	0.02	0.02	0.04	53	
PT-15A	56.5	-75.82	Y	11/9/2005	100	3	66.63	1.07	92.82	0.44	0.0035	0.19	0.26	267	267	NS	NS	NS	NS	2.5	0.02	0.03	0.00	0.00	0.00	0.03	100	
WMUG-09	44.5	-32.76	Y	6/5/2012	50	3	65.11	1.04	92.82	0.44	0.0029	0.20	0.29	435	220	200	15	0	0	2.4	0.03	0.04	0.02	0.03	0.02	0.04	33	
WMUR-09	96.5	-84.62	Y	9/6/2012	100	1	65.43	1.05	81.62	0.51	0.0064	0.21	0.26	503	200	300	3	0	0	2.4	0.02	0.04	0.00	0.03	0.00	0.04	92	
WMUA-34	17.5	-5.12	Y	7/17/2012	25	2	62.43	1.00	95.41	0.42	0.0041	0.33	0.50	705	150	520	35	0	0	2.3	0.02	0.03	0.01	0.02	0.01	0.03	34	
WMUG-08	23.5	-11.85	Y	7/1/2012	25	3	63.35	1.01	92.82	0.44	0.0029	0.16	0.23	309	240	57	4	0	8	2.3	0.03	0.04	0.01	0.02	0.01	0.04	54	
WMUR-06_94C	151	-139.71	Y	5/23/2012	160	0	66.94	1.07	108.28	0.35	0.0029	0.19	0.31	510	190	310	10	0	0	2.3	0.05	0.04	0.04	0.03	0.03	0.05	45	
WMUG-11	19.8	-7.38	Y	7/13/2012	25	3	63.14	1.01	92.82	0.44	0.0029	0.21	0.31	285	230	55	0	0	0	2.2	0.03	0.03	0.01	0.01	0.01	0.03	75	
WMUG-06	21.5	-9.57	Y	6/1/2012	25	3	64.95	1.04	92.82	0.44	0.0029	0.16	0.23	431	190	240	0	0	1	2.2	0.03	0.04	0.02	0.02	0.02	0.04	31	
PT-15	14.5	-32.96	Y	6/29/2004	50	3	63.74	1.02	92.82	0.44	0.0029	0.19	0.28	246	230	16	NS	NS	NS	2.1	0.02	0.03	0.00	0.00	0.00	0.03	100	
WMUA-40	19	-6.23	Y	6/6/2012	25	3	62.84	1.01	92.82	0.44	0.0029	0.20	0.29	288	220	57	11	0	0	2.1	0.03	0.03	0.01	0.01	0.01	0.03	68	
WMUG-06	18	-6.07	Y	6/1/2012	25	2	64.78	1.04	95.41	0.42	0.0041	0.24	0.35	391	190	200	0	0	0	2.1	0.03	0.03	0.01	0.02	0.01	0.03	63	
WMUR-10	125	-114.61	Y	9/11/2012	130	3	69.79	1.12	92.82	0.44	0.0029	0.16	0.22	456	170	280	4	0	0	2.1	0.03	0.03	0.02	0.02	0.02	0.03	29	
SB-A	119.5	-111.62	Y	7/18/2013	130	3	70.60	1.13	92.82	0.44	0.0029	0.17	0.23	343	190	150	2	0	0	2.0	0.03	0.03	0.01	0.02	0.01	0.03	47	
WMUA-15	15	-3.4	Y	8/7/2006	25	3	62.55	1.00	92.82	0.44	0.0021	0.19	0.28	249	210	38	1	0	0	2.0	0.02	0.02	0.01	0.00	0.00	0.02	93	
WMUG-12	27.5	-15.46	Y	8/17/2012	25	1	63.92	1.02	81.62	0.51	0.0064	0.20	0.25	240	210	22	4	0	4	2.0	0.00	0.02	0.00	0.00	0.00	0.02	1039	
WMUR-01	24	-12.17	Y	6/15/2012	25	3	63.02	1.01	92.82	0.44	0.0029	0.16	0.23	232	210	21	0	0	1	2.0	0.02	0.02	0.00	0.00	0.00	0.02	100	
WMUR-09	88.5	-76.62	Y	9/6/2012	100	2	65.08	1.04	95.41	0.42	0.0041	0.23	0.33	503	140	360	3	0	0	1.9	0.02	0.03	0.01	0.02	0.01	0.03	40	
WMUG-02	36	-23.68	Y	5/22/2012	50	2	64.01	1.03	95.41	0.42	0.0041	0.22	0.33	290	190	100	0	0	0	1.9	0.02	0.02	0.00	0.01	0.00	0.02	100	
WMUR-04	19	-8.64	Y	6/19/2012	25	3	62.69	1.00	92.82	0.44	0.0029	0.22	0.33	211	200	11	0	0	0	1.9	0.01	0.02	0.00	0.00	0.00	0.02	100	
PT-15	18.5	-36.96	Y	6/29/2004	50	3	63.72	1.02	92.82	0.44	0.0029	0.19	0.28	202	200	2	NS	NS	NS	1.8	0.02	0.03	0.00	0.01	0.00	0.03	91	
WMUA-41	19.5	-6.15	Y	6/12/2012	25	2	62.68	1.00	95.41	0.42	0.0041	0.20	0.31	302	180	100	22	0	0	1.8	0.03	0.03	0.01	0.02	0.01	0.03	46	
WMUG-07	43.5	-31.33	Y	6/4/2012	50	3	65.11	1.04	92.82	0.44	0.0029	0.22	0.31	329	180	92	41	0	16	1.8	0.01	0.02	0.00	0.00	0.00	0.02	100	
WMUG-10	21	-9.07	Y	7/12/2012	25	2	64.40	1.03	95.41	0.42	0.0041	0.22	0.33	568	98	470	0	0	0	1.7	0.02	0.02	0.01	0.01	0.01	0.02	33	
WMUG-12	49.5	-37.46	Y	8/17/2012	50	2	64.03	1.03	95.41	0.42	0.0041	0.24	0.35	351	150	200	1	0	0	1.7	0.02	0.02	0.01	0.01	0.01	0.02	74	
WMUG-09	18	-6.26	Y	6/4/2012	25	2	63.99	1.02	95.41	0.42	0.0041	0.19	0.28	355	160	110	84	0	0	1.7	0.02	0.03	0.01	0.02	0.01	0.03	58	
WMUR-09	24.7	-12.82	Y	9/5/2012	25	2	63.07	1.01	95.41	0.42	0.0041	0.16	0.24	193	180	13	0	0	0	1.7	0.01	0.02	0.00	0.00	0.00	0.02	100	
EXT-7	91.5	-80.35	Y	9/3/2013	100	2	65.54	1.05	95.41	0.42	0.0041	0.21	0.31	319	160	96	54	0	9	1.7	0.02	0.03	0.01	0.01	0.01	0.03	72	
SB-B-DEEP	145.5	-134.95	Y	8/8/2013	130	2	67.62	1.08	95.41	0.42	0.0041	0.18	0.25	418	120	290	6	1										

Table 3.2
Residual NAPL Saturation (NSAT) Calculations
Results < 0.01% not shown

Sample Attributes							Physical Properties							Dry-Weight Concentrations (mg/kg)						Kueper-Davies Value	NSAT (%)						
Location ID	Sample Midpoint (feet)		Saturated	Sample Date	Depth Zone	4-Code Texture Class	Porewater		Bulk Density	Porosity	foc	Water Content		Total	PCE	TCE	cDCE	tDCE	VC		Sitewide n, foc PRGs for S, Koc, H'	Best Estimate	Sensitivity Runs			Likely Range Analysis	
	Depth	Elevation					Density ρ_w (lb/ft3)	Specific Gravity	ρ_b lb/ft3	n ft3/ft3	kg/kg	θ_g (g/g)	θ_v (ft3/ft3)							Variable n, θ_v , foc PRGs for S, Koc, H'		Sitewide n, foc PRGs for S, Koc, H'	Variable n, θ_v , foc Ketawaters S, Koc, H'	Sitewide n, foc Ketawaters S, Koc, H'	Min	Max	Max % Diff. from Best Estimate
SB-B-DEEP	139	-128.45	Y	8/8/2013	130	2	66.75	1.07	95.41	0.42	0.0041	0.25	0.36	623	25	580	14	1	0	1.3	0.00	0.00	0.00	0.00	0.00	0.00	30
SB-B-DEEP	139	-128.45	Y	8/8/2013	130	2	66.75	1.07	95.41	0.42	0.0041	0.25	0.36	623	25	580	14	1	0	1.3	0.00	0.00	0.00	0.00	0.00	0.00	30
SB-B-DEEP	139	-128.45	Y	8/8/2013	130	2	66.75	1.07	95.41	0.42	0.0041	0.27	0.38	623	25	580	14	1	0	1.3	0.00	0.00	0.00	0.00	0.00	0.00	29
SB-B-DEEP	139	-128.45	Y	8/8/2013	130	2	66.75	1.07	95.41	0.42	0.0041	0.27	0.38	623	25	580	14	1	0	1.3	0.00	0.00	0.00	0.00	0.00	0.00	29
WMUA-40	13.9	-1.13	Y	6/6/2012	25	3	62.77	1.01	92.82	0.44	0.0029	0.19	0.28	149	130	16	3	0	0	1.2	0.00	0.01	0.00	0.00	0.00	0.01	100
WMUA-40	13.9	-1.13	Y	6/6/2012	25	3	62.77	1.01	99.50	0.40	0.0080	0.19	0.30	149	130	16	3	0	0	1.2	0.00	0.01	0.00	0.00	0.00	0.01	NA
SB-B-DEEP	147.5	-136.95	Y	8/8/2013	160	2	68.29	1.09	95.41	0.42	0.0041	0.20	0.28	281	96	180	4	0	0	1.2	0.01	0.01	0.00	0.01	0.00	0.01	97
WMUG-01	21	-8.23	Y	5/31/2012	25	3	64.53	1.03	92.82	0.44	0.0029	0.20	0.28	135	130	5	0	0	0	1.2	0.01	0.01	0.00	0.01	0.00	0.01	97
SB-B-DEEP	147.5	-136.95	Y	8/8/2013	160	2	68.29	1.09	95.41	0.42	0.0041	0.20	0.28	281	96	180	4	0	0	1.2	0.00	0.00	0.00	0.00	0.00	0.00	227
WMUR-09	72	-60.12	Y	9/6/2012	75	2	64.42	1.03	95.41	0.42	0.0041	0.21	0.31	205	110	88	6	0	1	1.2	0.01	0.01	0.00	0.00	0.00	0.01	100
WMUG-06	42.5	-30.57	Y	6/2/2012	50	3	64.67	1.04	92.82	0.44	0.0029	0.30	0.42	771	29	430	260	2	49	1.2	0.02	0.03	0.02	0.02	0.02	0.03	24
5106-001	26.5	-75.12	Y	9/27/2005	100	3	64.97	1.04	92.82	0.44	0.0029	0.19	0.27	655	27	470	116	0	41	1.2	0.01	0.01	0.01	0.01	0.01	0.01	40
IW-EXT-9-SHALLO	122	-109.79	Y	8/28/2013	130	3	66.51	1.07	92.82	0.44	0.0029	0.22	0.31	364	72	270	21	1	0	1.2	0.03	0.02	0.02	0.01	0.01	0.03	51
WMUR-02	14.5	-2.85	Y	6/13/2012	25	3	62.97	1.01	92.82	0.44	0.0029	0.22	0.32	122	120	1	0	0	0	1.1	0.00	0.00	0.00	0.00	0.00	0.00	NA
WMUR-05_83C	91	-79.54	Y	6/7/2012	100	2	65.44	1.05	95.41	0.42	0.0041	0.23	0.34	173	110	18	25	0	19	1.1	0.01	0.01	0.00	0.00	0.00	0.01	100
WMUR-10	133.5	-123.11	Y	9/11/2012	130	2	68.81	1.10	95.41	0.42	0.0041	0.20	0.27	220	88	130	2	0	0	1.0	0.01	0.01	0.00	0.00	0.00	0.01	100
WMUR-05_83C	23	-11.54	Y	6/6/2012	25	2	63.42	1.02	95.41	0.42	0.0041	0.27	0.41	209	93	100	16	0	0	1.0	0.01	0.01	0.00	0.00	0.00	0.01	100

Note:

- Sample property values highlighted gray are texture-based averages from Table 3.1 rather than an actual sample values.
- NSAT values for the first sample (WMUR-06_94C) with the highest K-D value are estimated from a linear regression (Figure 3.1) between the other NSATs and the corresponding K-D values. This was necessary because NAPLALC predicted more NAPL than remaining porosity after accounting for the volumetric water content. The reason this happened is that both the volumetric water content were calculating from a texture-based average bulk density that must be higher than the actual sample's bulk density. This situation was not problematic for other any other samples because the concentrations were lower in them.
- CRA Texture Codes provided in Table 3.1.

Table 3.3
NAPL Mass Estimates for all Sensitivity Runs

(1,000s of kg)

Horizontal Variogram Range	NAPL CALC Estimates			Range in Mass
	Min	Best Estimate	Max	
300	148	153	180	32
500	266	275	325	58
800	403	415	491	88
Range in Mass	255	261	311	343

Avg	StDev	CV
295	123	0.42

(% Difference from "Best Estimate")

Horizontal Variogram Range	NAPL CALC Estimates		
	Min	Best Estimate	Max
300	-50	-48	-37
500	-3	0	20
800	50	55	85

(% of CRA kriged soil TCVOC mass of 381,000 kg)

Horizontal Variogram Range	NAPL CALC Estimates		
	Min	Best Estimate	Max
300	39	40	47
500	70	72	85
800	106	109	129

Table 3.4
Predicted NSAT Mass Distribution

Approach		Agencies Kriged NSAT Plume >0.1%		
Description		Min	Best Estimate	Max
Volume (1,000s Gal)		25	46	82
Mass (1,000s kg)		148	275	491
% Contribution by Isoshell	0.1%	21	18	14
	0.2%	26	23	21
	0.5%	13	11	10
	1%	12	13	12
	2%	13	12	17
	5%	13	10	10
	10%	12	12	12
	20%	0	1	4
% Contribution by Depth Zone	25	9	8	8
	50	0.1	0.2	0.2
	75	0	0	0
	100	16	17	17
	130	67	67	68
	160	7	8	8