

Appendix K

Groundwater Density Distribution

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Section 1.0 Introduction

This Appendix presents the development of the three-dimensional (3-D) model of the anthropogenic density plume (ADP) based on groundwater density.

Section 2.0 Methodology

The CSI was designed to determine the current distribution of the anthropogenic density plume. The additional monitoring locations installed under the CSI were principally in the upland area. While the CSI groundwater monitoring provided a greater sample density on the peninsula, especially in the 130-foot and 160-foot zone grouping planes, limited new data was collected from below the Hylebos Waterway. Therefore, it was necessary to combine the 2004/2006 and CSI data sets to develop an understanding of the density distribution. The evaluation of the changes in the density distribution between 2006 and 2012 was limited to a comparison of monitoring locations where data were available for both monitoring periods.

The density values for groundwater samples collected at the Site were calculated based on specific gravity and temperature data using the following equation:

$$\rho_{gw} = (SG - 0.0002 \times (T^{\circ}\text{F} - 60^{\circ}\text{F})) \times \rho_f$$

Where:

ρ_{gw}	density of groundwater sample (lbs/ft ³)
SG	specific gravity measured of the groundwater sample (unitless)
T	temperature measured in the field (degrees Fahrenheit)
ρ_f	density of fresh water (62.336 lbs/ft ³)

The temperature values were taken from the transducers within the wells instead of from the sampling records, because the temperature measurements collected during groundwater sampling were subject to error due to the exposure of the sampling line to warm ambient temperatures during the summer sampling event in 2012.

Specific gravity values were measured in all of the groundwater and surface water samples collected during the CSI. The data were reviewed along with the calculated TDS values and historical values at each of the locations sampled, where available. The data review revealed that some of the specific gravity values were inconsistent with the associated TDS values and/or historical data. The Agencies suggested some modifications to the specific gravity values to account for these errors, and these modifications were incorporated into the database.

Specific gravity values were collected in a small portion of the Hylebos Waterway in 2012, meaning that much of the area under the Hylebos Waterway has no CSI density measurement. Therefore for the areas where 2012 data were unavailable, 2004 data were used. The Agencies suggested modifications to the specific gravity values to account for errors in the reported values. The modifications also were incorporated into the database. The final density data set is presented in Attachment K-1.

Table K.1 presents the 2012 and 2004/2006 temperature-corrected density data for locations where samples for multiple dates were available, as well as the difference between the values measured in 2004 vs. 2012, and 2006 vs. 2012. Examination of Table K.1 shows that the 2012 values are generally similar to or slightly lower than the 2004/2006 values. The only location where the 2012 value was above both the 2004 and 2006 values was at T5-120, which is east of the Salt pad. The lack of a systematic change in density values between 2004/2006 and 2012 indicated that the anthropogenic density plume has not migrated significantly over that time period.

A 3-D visualization of the density data collected at the Site was using 3-D kriging implemented in the MVS/EVS software package. A 3-D visualization of the ADP in the 4DIM viewer format is included in Attachment K-2.

TABLE K.1

**COMPARISON OF PRE-CSI AND CSI DENSITY DATA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

Location	Depth Zone	Density				
		2004	2006	2012	2012/2004 Difference	2012/2006 Difference
11-25	25		62.5404	62.3880		-0.2
12-25	25	62.5279	62.5041	62.3300	-0.2	-0.2
12A-25	25		62.4882	62.3907		-0.1
14-25R	25	62.9111	62.7100	62.4341	-0.5	-0.3
18-25	25		62.8909	62.4618		-0.4
23-25R	25		63.4573	62.4604		-1.0
35-25	25	62.8425	62.5751	62.3211	-0.5	-0.3
36-25	25		62.5010	62.3877		-0.1
40-25	25		62.4408	62.3802		-0.1
42-25	25		62.5279	62.3751		-0.2
44-25	25	63.1121	62.5324	62.4609	-0.7	-0.1
5-25	25		62.8168	63.6151		0.8
55-25	25		62.4399	62.4053		0.0
65-25	25		62.6540	62.7375		0.1
67-25	25	62.9640	62.6261	62.5114	-0.5	-0.1
69-25	25	63.4427	63.2022	62.9020	-0.5	-0.3
70-25	25	63.6752	63.4080	63.2162	-0.5	-0.2
709-MW20-25	25		62.3826	62.4231		0.0
71-25	25	63.6527	63.3010	63.1506	-0.5	-0.2
721-MW10-15	25	63.4013		62.7153	-0.7	
721-MW10-25	25	62.9023	63.5505	62.3982	-0.5	-1.2
721-MW5-15	25	63.2765		62.3538	-0.9	
721-MW5-25	25	62.9647	62.6239	62.5820	-0.4	0.0
721-MW6-15	25	62.8400		62.3919	-0.4	
721-MW6-25	25	62.9023	66.3677	62.4963	-0.4	-3.9
721-MW7-15	25	63.0271		62.3261	-0.7	
721-MW9-15	25	62.9023		62.5177	-0.4	
721-MW9-25	25	62.9647	62.7572	62.5900	-0.4	-0.2
8-23	25	62.5885	62.6155	62.2685	-0.3	-0.3
9-25	25		62.4092	62.3932		0.0
11-45	50	62.9976	62.9842	62.7748	-0.2	-0.2
12A-50	50		63.7380	62.4317		-1.3
14-50R	50	64.3787	64.0821	63.8597	-0.5	-0.2
15-50R	50	64.0377	64.0012	63.7478	-0.3	-0.3
22-50	50	62.5212	62.7980	63.2478	0.7	0.4
32-50R	50	62.5813	62.4763	62.3682	-0.2	-0.1
36-50	50	62.6437	64.0377	62.3690	-0.3	-1.7
40-50	50	63.8111	63.4589	63.4868	-0.3	0.0
42-50	50	62.5997	62.4897	62.4458	-0.2	0.0
43-50	50	62.9223	62.7572	62.7632	-0.2	0.0
44-50	50	62.7065	62.4768	62.7320	0.0	0.3
45-50	50	62.6594	62.4835	62.4980	-0.2	0.0
5-50	50		63.6787	63.5311		-0.1
55-50	50		62.6071	62.8518		0.2
60-50	50		62.4471	63.8084		1.4

TABLE K.1

**COMPARISON OF PRE-CSI AND CSI DENSITY DATA
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Location</i>	<i>Depth Zone</i>	<i>Density</i>				
		<i>2004</i>	<i>2006</i>	<i>2012</i>	<i>2012/2004 Difference</i>	<i>2012/2006 Difference</i>
65-50	50		63.9515	63.9909		0.0
67-50	50	63.6472	62.4747	63.4446	-0.2	1.0
6A-50	50		62.7257	62.8391		0.1
709-MW20-50	50		62.2842	62.3371		0.1
71-50	50	63.8887	63.3032	63.6220	-0.3	0.3
721-MW10-50	50	63.3389	62.9487	62.8931	-0.4	-0.1
721-MW5-50	50	63.0271	62.7650	62.7190	-0.3	0.0
721-MW6-50	50	63.0894	62.5701	62.7599	-0.3	0.2
721-MW9-50	50	63.4636	62.5189	62.8906	-0.6	0.4
74-50	50		62.8375	63.3354		0.5
75-50	50		63.9212	63.5853		-0.3
9-50	50		62.4866	62.4727		0.0
74-75	75		63.7218	63.4843		-0.2
75-75	75		67.9870	67.2742		-0.7
T6-60	75	64.4615	64.4615	63.9377	-0.5	-0.5
11-100	100	66.5081	62.4808	65.5042	-1.0	3.0
12-100	100		63.2516	63.2043		0.0
36-100R	100	63.9089	63.8685	62.3613	-1.5	-1.5
40-100R	100	64.4168	64.1315	63.7221	-0.7	-0.4
45-100	100	63.7376	63.7196	63.7879	0.1	0.1
5-100	100	63.4629	63.0415	63.4073	-0.1	0.4
64-100	100		62.5566	63.4784		0.9
65-100	100		66.1137	68.1161		2.0
6A-100	100		63.2888	63.4993		0.2
7-100	100		62.5373	63.3150		0.8
74-100	100		64.0527	63.5801		-0.5
75-100	100		62.4038	62.6066		0.2
9-100	100		63.7755	63.4673		-0.3
15-120	130	65.1760	72.5459	71.4477	6.3	-1.1
65-130	130		63.3881	62.5082		-0.9
75-130	130		62.4777	62.2767		-0.2
T5-120	130	65.4594	62.8400	69.3147	3.9	6.5
11-183	160		62.7482	62.7218		0.0
12-160	160	62.6661	62.5835	62.4518	-0.2	-0.1
64-170	160		62.8716	62.8894		0.0
7-181	160		62.6964	62.4102		-0.3

Attachment K-1

Groundwater Density Dataset

ATTACHMENT K-1

GROUNDWATER DENSITY DATASET
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
3936.1641	5918.7494	-9.4	62.8174	1-25	11.19	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3937.7905	5919.4374	-28.82	64.6481	1-45	11.21	Updated as per USEPA recommendation on Dec 31 2012
3933.8135	5912.0263	-90.4	68.0317	1-100R	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3970.0580	5403.9326	-9.4	62.6244	2-25	11.39	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3970.9116	5410.9420	-34.6	63.9006	2-50	11.36	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3970.9093	5413.9420	-84.5	62.7069	2-100	11.33	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3955.9000	4708.5000	-9.9	62.4573	3-25	12.63	2012
3951.9899	4704.0776	-34.9	63.1851	3-50	12.61	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3962.7999	4712.0310	-85	63.4789	3-100	12.54	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3953.1979	4711.9895	-159.7	62.2776	3-175	12.8	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3725.0865	5946.1597	-101.1	69.7387	4-115R	12.05	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3716.1252	5946.2080	-159.1	62.7556	4-175R	12.15	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3748.4160	5945.8646	-10.6	64.4445	4-25R	12.15	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3742.1198	5945.8984	-30.6	66.1595	4-45R	12.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3733.2416	5946.5930	-67.3	66.6559	4-83R	12.05	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3586.7000	5292.2600	-10.8	62.9198	5-25	11.65	Updated as per USEPA recommendation on Dec 31 2012
3584.0600	5302.4300	-35.8	63.6121	5-50	11.66	2012
3606.4300	5301.9800	-59.5	64.8028	5-75	11.71	2012
3590.2300	5302.4300	-85.8	63.4567	5-100	11.69	2012
3230.6900	6042.6500	-9.5	62.4699	7-25	12.95	2012
3241.6600	6048.2000	-84.7	63.4849	7-100	12.83	2012
3247.2500	6051.4300	-165.5	62.7051	7-181	12.98	2012
3172.6100	5274.3900	-8.5	62.5576	8-23	11.81	2012
3167.5274	5274.2893	-39.5	62.7678	8-54	11.97	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3173.7154	5288.0866	-83	63.8683	8-99R	11.86	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3196.1500	4687.6000	-10.9	62.5002	9-25	11.95	2012
3196.3600	4691.9800	-35.7	62.5778	9-50	12.15	2012
3195.3900	4697.3000	-85.8	63.6025	9-100	12.11	2012
3724.5700	6088.2300	-11.6	62.6092	10-24	9.9	2012
3719.0800	6087.3300	-37.4	63.4990	10-50	10.1	2012
3713.3900	6087.4500	-87.2	66.3049	10-100	10.3	2012
3622.5500	6282.1900	-10.18	62.5094	11-25	12.32	2012
3614.0500	6284.5700	-27.62	62.8631	11-45	12.24	2012
3609.4200	6282.6100	-59.5	63.0300	11-75	12.25	2012
3620.8400	6279.3300	-83.5	65.6890	11-100	12.32	2012
3623.2600	6285.6900	-165.62	62.8670	11-183	12.35	2012
3141.1200	6380.4900	-10.6	62.4268	12-25	10.45	2012
3136.6036	6358.4303	-28.92	62.4674	12-45	10.43	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3117.8400	6367.3800	-59.5	63.1068	12-75	10.52	2012
3144.0300	6377.5900	-88.28	63.3455	12-100	9.22	2012
3139.6600	6361.2500	-144.02	62.3102	12-160	10.64	2013
3871.4623	6069.7163	-32.9	63.2957	13-49	11.48	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3978.5600	5774.2500	-10.7	62.5056	14-25R	11.29	2012
3983.3300	5782.4500	-37.6	63.8945	14-50R	11.43	2012
3982.1100	5657.7300	-105.5	71.4867	15-120	11.25	2012
3987.6840	5654.3825	-11.7	63.2740	15-25R	10.85	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3992.5700	5668.4000	-36.6	63.8283	15-50R	10.91	2012
3944.9371	5255.6363	-9.7	62.6801	16-25	11.75	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3944.8183	5250.8179	-35.6	64.1063	16-50	11.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3983.6250	4876.2957	-10.7	63.5063	17-24	11.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3974.3671	4847.7507	-31.1	63.8033	17-50R	11.36	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3597.8700	4830.5600	-9	62.6067	18-25	11.94	2012
3655.3100	4832.5200	-35.5	64.8306	18-50R	11.93	2012
3664.2797	5490.9175	-11.1	62.5364	19-25	11.26	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3662.1690	5488.6178	-36.3	63.9011	19-50R	11.09	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3846.8648	5886.2158	-8.3	62.5665	20-25	11.49	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3846.8648	5886.2158	-34.4	64.2456	20-50	11.57	2013
3553.5206	5793.0814	-32.1	63.3578	21-48	12.81	Updated as per USEPA recommendation on Dec 31 2012
3553.4781	5802.9229	-9.5	62.7598	21-25R	13.03	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3601.4200	5605.8700	-35.4	63.3159	22-50	12.11	2012
3621.9216	5604.2598	-44	63.1629	22-70	11.37	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3606.4915	5596.6166	-10.5	62.6226	22-25R	11.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3360.5523	4983.8815	-34.9	63.8236	23-50	13.06	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3375.3600	4994.3200	-9.8	62.5986	23-25R	12.23	2012
3095.8600	5953.0300	0.87	62.4139	24-15	11.87	2012
3097.0300	5948.7300	-20.3	62.4249	24-35	12.18	2012
3097.4300	5943.6700	-35.4	62.4592	24-50	12.09	2012
3098.9782	5656.3965	-11.2	62.4939	25-25	11.31	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3099.1037	5660.7348	-36.3	62.5466	25-50	11.67	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3087.4881	6055.5851	-85.2	63.6416	32-100	12.3	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3087.4500	6051.1100	-35.3	62.4762	32-50R	12.24	2012

ATTACHMENT K-1

**GROUNDWATER DENSITY DATASET
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
2947.1125	6116.5477	-11.7	62.7090	34-25	11.8	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2947.4705	6110.0792	-35.7	62.5151	34-50	11.8	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2952.0100	6110.2700	-59.5	63.1758	34-75	11.87	2012
2947.6470	6103.9499	-85.5	62.9800	34-100	12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2953.5200	6099.6200	-9.5	62.5319	34-25R	11.82	2012
2948.6300	6104.0100	-34.5	62.4868	34-50R	11.83	2012
2778.1800	5945.6600	-10.6	62.5845	35-25	11.89	2012
2788.5373	5938.8415	-30.4	62.4112	35-50	11.84	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2788.5210	5942.8754	-83.5	64.0553	35-100	11.93	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2792.5400	5951.9500	-84.15	63.7798	35-100R	11.98	2012
2944.2100	5720.5300	-12.4	62.4795	36-25	11.02	2012
2945.5300	5714.7500	-36.8	62.4657	36-50	11.08	2012
2947.9300	5706.1100	-86.8	63.8121	36-100R	11.07	2013
3603.4500	6675.7000	-8.6	62.4853	40-25	12.4	2012
3613.3900	6678.0700	-34.1	63.6508	40-50	12.46	2012
3610.2700	6697.0800	-61.21	63.5453	40-75	12.49	2012
3617.0300	6691.6400	-82.68	63.7461	40-100R	12.62	2013
3940.9717	6931.8983	-35	63.4999	41-50	10.84	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3936.2830	6932.2871	-85.8	62.5054	41-100	10.84	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3928.9791	6931.7685	-123	63.2641	41-138	10.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2744.4900	6112.6000	-9.1	62.5751	42-25	11.9	2012
2743.3400	6120.3600	-34.1	62.6270	42-50	11.9	2012
2922.5670	6230.8745	-8.8	62.5350	43-25	12.2	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2962.7800	6313.5200	-33.8	62.8764	43-50	11.54	2012
2634.4800	5938.6900	-9.2	62.5528	44-25	11.76	2012
2639.2400	5938.8800	-34.2	62.8266	44-50	11.76	2012
3057.9400	5156.0900	-35.2	62.6107	45-50	11.05	2012
3057.8900	5166.5400	-85.9	63.8587	45-100	11.17	2012
3212.1561	5166.1896	-34.2	62.8515	46-50	11.8	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3213.7501	5159.7991	-84.2	63.9837	46-100	13.3	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3703.4200	4612.7900	0.6	62.6323	48-15	11.5	2012
3941.8000	4590.8800	2.6	62.6508	49-15	12.6	2012
3785.9400	4612.1000	0.4	62.5014	50-15	11.2	2012
3338.0700	4598.6800	1.8	62.3960	52-15	11.9	2012
3408.7573	6042.4230	-10.1	63.2873	53-25	11.89	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3398.1412	6041.5270	-35.1	62.7001	53-50	11.96	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3389.6637	6040.9104	-88.04	62.5171	53-100	11.96	2013
3290.1300	5356.9300	-8.74	62.5037	55-25	12.31	2012
3291.5600	5356.7500	-35.1	62.8774	55-50	11.89	2012
3292.1346	5364.4567	-84.2	63.7292	55-100	11.77	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2847.8795	5695.5953	-36.2	62.6621	57-50	11.63	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3949.6255	5826.1266	-9.64	63.6663	59-25	11.36	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3948.7380	5818.0321	-34.77	64.2476	59-50	11.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3963.0966	5672.1936	-10.05	62.5553	60-25	10.95	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3963.4400	5677.7900	-34.87	63.8432	60-50	11.13	2012
3879.2212	6652.7685	-11.34	62.5899	64-25	10.91	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3881.4233	6653.3694	-34.6	63.5624	64-50	11.1	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3877.9400	6643.3100	-85.23	63.6659	64-100	10.77	2012
3871.3800	6653.1100	-161.47	63.0252	64-170	11.03	2012
3987.2700	5106.2400	-11.05	62.8937	65-25	11.45	2012
3988.2500	5102.7200	-36.04	64.0761	65-50	11.46	2012
3983.5700	5118.3000	-85.94	68.2495	65-100	11.56	2012
3984.2600	5125.9300	-115.73	62.6561	65-130	11.77	2013
3979.5700	5363.9500	-10.99	62.5881	67-25	11.34	2012
3974.4700	5363.9100	-36.56	63.4464	67-50	11.44	2012
3975.2599	5446.6093	-11.15	62.9743	68-25	11.35	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3975.3718	5449.9901	-36.17	64.1556	68-50	11.33	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3951.7800	5603.1700	-12.41	62.9413	69-25	10.39	2012
3957.2960	5602.8944	-37.6	63.9730	69-50	10.4	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3976.1600	6723.8900	-11.99	63.2507	70-25	10.51	2012
3975.7022	6719.1488	-38	63.7546	70-50	10.5	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3939.8700	6513.2600	-11.68	63.2310	71-25	10.82	2012
3944.1000	6513.1500	-37.3	63.7154	71-50	10.7	2012
3941.7620	6321.8374	-12.72	63.2632	72-25	10.28	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3946.8446	6321.5778	-37.33	63.4893	72-50	10.17	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3965.4323	6089.8298	-12.5	63.1647	73-25	10.5	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3969.7462	6090.0451	-37.61	63.8511	73-50	10.39	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3716.5200	6505.2600	-35.76	63.5044	74-50	11.74	2012
3716.2700	6511.8400	-60.76	63.8123	74-75	11.74	2012
3716.0200	6518.0000	-85.76	63.9077	74-100	11.74	2012
3714.9265	6525.0145	-115.72	67.9368	74-130	11.78	SG_Mudline_KrigingFile_Jul6-11-Post.xls

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**GROUNDWATER DENSITY DATASET
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
3743.6300	5109.9400	-35.36	63.6727	75-50	12.14	2012
3742.8400	5104.8600	-60.27	67.4218	75-75	12.23	2012
3742.7200	5097.7900	-85.29	62.7866	75-100	12.21	2012
3742.2900	5092.6400	-115.2	62.4224	75-130	12.3	2013
3038.5155	6649.1615	-86.31	62.6627	76-100	11.19	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3389.2413	7005.4415	-88.99	63.4435	77-100	8.51	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3388.5707	6998.9461	-128.72	66.4439	77-140	8.78	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3305.7157	6378.9392	-12.21	62.8744	78-25	10.29	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3305.6337	6382.6180	-37.21	62.6624	78-50	10.29	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3871.9700	5026.9500	-10.15	62.9140	80-25	11.26	2012
3765.3100	5442.5000	-35.9	65.8933	81-50	11.66	2012
3934.8200	5514.6700	-82.4	68.2588	82-100	10.18	2012
4030.8200	4229.8200	1.5	62.3967	95-15	10.9	2012
3299.1400	4413.6200	1.1	62.4778	709-MW11-15	11.6	2012
3300.5700	4424.3400	-11.28	62.5249	709-MW11-25	10.52	2012
3601.6700	4578.1200	1.53	62.4631	709-MW15-15	11.53	2012
3611.9300	4573.1100	-37.06	62.9421	709-MW15A-50	11.44	2012
3456.5200	4576.1500	0.6	62.4812	709-MW16-15	11.6	2012
3452.2700	4569.7800	-10.29	62.4772	709-MW16-25	11.21	2012
3457.5400	4568.8000	-35.42	62.5862	709-MW16-50	11.08	2012
3463.4300	4568.2500	-60.44	62.4932	709-MW16-75	11.06	2012
3316.0900	4576.7600	2.1	62.4357	709-MW17-15	11.6	2012
3185.4100	4547.6100	1.6	62.5338	709-MW18-15	11.6	2012
3196.3100	4547.2600	-10.3	62.5330	709-MW18-25	11.4	2012
3192.0600	4547.4900	-35.15	62.5224	709-MW18-50	11.55	2012
3734.1500	4482.6600	1.39	62.3780	709-MW19-15	11.39	2012
3848.6100	4502.0200	3.44	62.4716	709-MW2-15	12.44	2012
3952.2700	4490.6300	0.86	62.5632	709-MW20-15	13.36	2012
3947.5800	4495.4200	-8.97	62.4641	709-MW20-25	13.53	2012
3946.0200	4491.9300	-34.29	62.5089	709-MW20-50	13.21	2012
3955.3400	4497.1100	-61.56	63.3929	709-MW20-75	13.32	2012
3181.4400	4394.5300	1.55	62.4701	709-MW21-15	11.75	2012
3176.3400	4394.1600	-10.02	62.5072	709-MW21-25	11.68	2012
3171.5700	4394.1000	-35.04	62.5369	709-MW21-50	11.66	2012
3946.9200	4534.3800	1.6	62.5141	709-MW4-15	11.6	2012
3957.3400	4444.5300	1.6	63.3829	709-MW5-15	11.6	2012
3823.2600	4572.1300	2.55	62.4657	709-MW6-15	11.6	2012
3814.2100	4571.1000	-10.94	63.9424	709-MW6-25	11.86	2012
3832.2800	4573.5800	-35.01	62.5729	709-MW6-50	11.79	2012
3921.8900	4407.0500	1.46	62.4108	709-MW7-15	11.55	2012
3802.8700	4410.3400	1.74	62.3686	709-MW8-15	11.6	2012
3578.2000	4413.8300	0.1	62.5141	709-MW9-15	11.6	2012
3574.4400	4409.1000	-10.14	62.5411	709-MW9-25	11.76	2012
4059.3200	4198.6800	-1.87	62.7706	721-MW10-15	10.63	2012
4057.1700	4194.3400	-11.8	62.4887	721-MW10-25	10.7	2012
4061.8500	4194.6700	-36.84	63.0619	721-MW10-50	10.66	2012
4053.8100	4199.3300	-60.02	63.5131	721-MW10-75	10.78	2012
3832.6300	4203.3500	1.48	62.4605	721-MW11-15	11.38	2012
3837.7900	4203.2900	-10.03	62.5289	721-MW11-25	11.37	2012
3844.2900	4203.7300	-35.04	62.6282	721-MW11-50	11.36	2012
3848.9000	4204.1800	-60.04	63.5337	721-MW11-75	11.36	2012
3404.2400	4324.3100	1.47	62.4417	721-MW12-15	11.07	2012
3404.1600	4318.3000	-10.08	62.5099	721-MW12-25	11.02	2012
3403.7400	4312.6000	-46	62.5504	721-MW12-50	11.02	2012
3410.4900	4175.1300	1.46	62.3916	721-MW13-15	11.06	2012
3410.4400	4168.7600	-10.11	62.4831	721-MW13-25	10.99	2012
3410.3200	4163.4600	-35.16	62.5687	721-MW13-50	10.94	2012
3208.1500	4356.1600	1.64	62.3984	721-MW14-15	11.34	2012
3208.1500	4351.6300	-9.87	62.4474	721-MW14-25	11.33	2012
3208.3100	4346.4000	-34.9	62.4787	721-MW14-50	11.3	2012
3215.0300	4231.9300	1.3	62.4735	721-MW15-15	11.2	2012
3214.9400	4225.7000	-10.17	62.4689	721-MW15-25	11.23	2012
3214.8600	4219.4500	-35.1	62.5382	721-MW15-50	11.3	2012
3720.2300	4367.1800	-1.02	62.4300	721-MW5-15	11.48	2012
3725.5500	4366.5400	-11.03	62.6649	721-MW5-25	11.47	2012
3723.0300	4362.2500	-35.11	62.7975	721-MW5-50	11.39	2012
3728.0700	4360.6000	-60.19	63.5259	721-MW5-75	11.41	2012
3704.5400	4195.4100	-1.2	62.5048	721-MW6-15	11.3	2012
3709.8600	4193.8300	-11.23	62.5670	721-MW6-25	11.27	2012
3705.8700	4190.4800	-36.32	62.8494	721-MW6-50	11.18	2012
3875.1900	4329.4800	-1.31	62.3600	721-MW7-15	11.19	2012

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**GROUNDWATER DENSITY DATASET
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>						
<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>		<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
3982.9500	4351.4100	-1.13	62.5605	721-MW9-15	11.37	2012
3987.3600	4352.7100	-11.1	62.6589	721-MW9-25	11.4	2012
3982.7100	4355.3600	-36.4	62.9718	721-MW9-50	11.4	2012
3138.3300	6302.4500	-8.3	62.5194	12A-25	12.58	2012
3139.5000	6289.8800	-33.2	62.5793	12A-50	12.8	2012
3974.5500	4822.5500	-13.5	63.3856	17C-25	11	2012
3974.5500	4822.5500	-38.5	63.3456	17C-50	11	2012
3974.5500	4822.5500	-63.5	63.8763	17C-75	11	2012
3974.5500	4822.5500	-88.5	62.5320	17C-100	11	2012
3974.5500	4822.5500	-108.5	62.5682	17C-130	11	2012
3974.5500	4822.5500	-158.5	62.5460	17C-160	11	2012
3490.4000	5797.7800	-7.71	62.5145	21C-25	12.93	2012
3490.4000	5797.7800	-32.75	62.9995	21C-50	12.93	2012
3490.4000	5797.7800	-57.73	63.9021	21C-75	12.93	2012
3490.4000	5797.7800	-78.66	64.8114	21C-100	12.93	2012
3490.4000	5797.7800	-104.71	62.5434	21C-130	12.93	2013
3490.4000	5797.7800	-151.34	62.8506	21C-160	12.93	2012
3172.9077	5672.4688	-8.1	62.3716	25A-25	12.9	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3172.6173	5666.0805	-33.2	62.5123	25A-50	12.8	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2958.0500	6104.7400	-82.3	63.2425	34C-100	11.8	2012
2958.0500	6104.7400	-112.09	63.6792	34C-130	11.8	2013
2958.0500	6104.7400	-151.52	62.6831	34C-160	11.8	2013
3617.6381	6762.0348	-7.9	62.5471	40A-25	13.1	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3620.0641	6756.4853	-32.8	62.7821	40A-50	13.2	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3629.5118	6766.5974	-86.4	63.8907	40A-100	13.13	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3929.7400	7021.2900	-10.15	62.9050	41C-25	10.29	2012
3929.7400	7021.2900	-35.13	63.3396	41C-50	10.29	2012
3929.7400	7021.2900	-60.07	63.1977	41C-75	10.29	2012
3929.7400	7021.2900	-85	63.5537	41C-100	10.29	2012
3929.7400	7021.2900	-96.71	63.6452	41C-130	10.29	2012
3929.7400	7021.2900	-154.85	62.9322	41C-160	10.29	2012
3244.5100	5159.6600	-13.5	62.4762	46C-25	12	2012
3244.5100	5159.6600	-38.5	62.9306	46C-50	12	2012
3244.5100	5159.6600	-63.5	63.1959	46C-75	12	2012
3244.5100	5159.6600	-88.5	63.7340	46C-100	12	2012
3244.5100	5159.6600	-117.5	63.3799	46C-130	12	2012
3244.5100	5159.6600	-156.5	63.0829	46C-160	12	2012
3499.9100	6054.5400	-9.76	62.4555	53C-25	12.16	2012
3499.9100	6054.5400	-34.74	62.7961	53C-50	12.16	2012
3499.9100	6054.5400	-59.57	63.4780	53C-75	12.16	2012
3499.9100	6054.5400	-84.2	63.8637	53C-100	12.16	2012
3499.9100	6054.5400	-116.65	69.3753	53C-130	12.16	2013
3499.9100	6054.5400	-162.27	62.6237	53C-160	12.16	2012
3362.5300	6743.7300	-9.61	62.5919	61C-25	10.87	2012
3362.5300	6743.7300	-34.6	62.7258	61C-50	10.87	2012
3362.5300	6743.7300	-59.6	62.5603	61C-75	10.87	2012
3362.5300	6743.7300	-84.71	64.0379	61C-100	10.87	2012
3362.5300	6743.7300	-114.56	66.7139	61C-130	10.87	2013
3362.5300	6743.7300	-157.46	62.8423	61C-160	10.87	2013
3614.2266	4598.6750	-10.4	62.5466	6A-24.5	11.99	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3620.6800	4599.6300	-35.6	62.9194	6A-50	12.22	2012
3629.0700	4598.2900	-85.3	63.5700	6A-100	12.11	2012
3377.6000	6957.6200	-6.12	63.1862	77C-25	9.78	2012
3377.6000	6957.6200	-41.72	62.6592	77C-50	9.78	2012
3377.6000	6957.6200	-59.12	63.2901	77C-75	9.78	2012
3377.6000	6957.6200	-84.25	63.0483	77C-100	9.78	2012
3377.6000	6957.6200	-114.27	65.5427	77C-130	9.78	Updated as per USEPA recommendation on Dec 31 2012
3377.6000	6957.6200	-154.02	64.6096	77C-160	9.78	2013
3278.1200	6377.0400	-10.07	62.5308	78C-25	11.48	2012
3278.1200	6377.0400	-35.04	62.5630	78C-50	11.48	2012
3278.1200	6377.0400	-60.03	63.1001	78C-75	11.48	2012
3278.1200	6377.0400	-85.93	65.2053	78C-100	11.48	Updated as per USEPA recommendation on Dec 31 2012
3278.1200	6377.0400	-131.86	62.6803	78C-130	11.48	2013
3278.1200	6377.0400	-154.3	62.7999	78C-160	11.48	2012
3944.7800	6070.0700	-10.46	63.6014	83C-25	11.46	2012
3944.7800	6070.0700	-35.47	63.4285	83C-50	11.46	2012
3944.7800	6070.0700	-60.38	64.0848	83C-75	11.46	2012
3944.7800	6070.0700	-85.34	65.9698	83C-100	11.46	2012
3944.7800	6070.0700	-115.34	72.3808	83C-130	11.46	2012
3944.7800	6070.0700	-154.98	62.9681	83C-160	11.46	2012
2814.1000	7027.8800	-10.88	62.5794	84C-25	11.12	2012

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GROUNDWATER DENSITY DATASET
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
2814.1000	7027.8800	-35.91	62.9896	84C-50	11.12	2012
2814.1000	7027.8800	-60.8	62.8827	84C-75	11.12	2012
2814.1000	7027.8800	-85.78	63.0143	84C-100	11.12	2012
2814.1000	7027.8800	-115.66	62.9958	84C-130	11.12	2012
2814.1000	7027.8800	-150.8	62.7151	84C-160	11.12	2013
2650.8700	6134.1700	-9.63	62.5530	85C-25	12.01	2012
2650.8700	6134.1700	-34.8	62.7852	85C-50	12.01	2012
2650.8700	6134.1700	-59.82	63.6417	85C-75	12.01	2012
2650.8700	6134.1700	-84.9	63.5204	85C-100	12.01	Updated as per USEPA recommendation on Dec 31 2012
2650.8700	6134.1700	-114.49	63.7772	85C-130	12.01	2012
2650.8700	6134.1700	-145.19	63.7758	85C-160	12.01	Updated as per USEPA recommendation on Dec 31 2012
2700.8200	5315.2200	-8.65	62.5146	86C-25	10.8	2012
2700.8200	5315.2200	-33.7	62.5261	86C-50	10.8	2012
2700.8200	5315.2200	-58.71	63.5484	86C-75	10.8	2012
2700.8200	5315.2200	-83.71	63.7142	86C-100	10.8	2012
2700.8200	5315.2200	-113.76	63.7853	86C-130	10.8	2012
2700.8200	5315.2200	-153.35	63.8188	86C-160	10.8	2012
2852.1800	5320.9000	-9.38	62.4657	87C-25	12.31	2012
2852.1800	5320.9000	-34.38	62.5166	87C-50	12.31	2012
2852.1800	5320.9000	-59.36	63.5057	87C-75	12.31	2012
2852.1800	5320.9000	-84.35	63.6231	87C-100	12.31	2012
2852.1800	5320.9000	-114.41	63.7186	87C-130	12.31	2012
2852.1800	5320.9000	-154.41	63.7772	87C-160	12.31	2012
2851.7600	4825.9800	-10	62.4926	88C-25	10.81	2012
2851.7600	4825.9800	-35	62.6765	88C-50	10.81	2012
2851.7600	4825.9800	-60	63.5297	88C-75	10.81	2012
2851.7600	4825.9800	-84.99	63.4354	88C-100	10.81	2012
2851.7600	4825.9800	-114.98	63.5324	88C-130	10.81	2013
2851.7600	4825.9800	-155.02	63.7639	88C-160	10.81	2013
3205.1700	5803.7000	-10.43	62.4334	89C-25	12.81	2012
3205.1700	5808.8000	-34.77	62.8138	89C-50	12.73	2012
3206.5100	5820.8100	-60.02	63.3314	89C-75	12.6	2012
3212.1600	5809.4400	-84.88	63.4264	89C-100	12.67	2012
3212.1600	5809.4400	-114.86	63.6533	89C-130	12.67	2012
3799.7400	5967.8600	-9.22	62.5927	90C-25	11.65	2012
3799.7400	5967.8600	-34.26	63.5300	90C-50	11.65	2012
3799.7400	5967.8600	-52.25	64.7318	90C-75	11.65	2013
3799.7400	5967.8600	-84.25	65.3009	90C-100	11.65	2012
3799.7400	5967.8600	-114.25	71.8534	90C-130	11.65	2012
3799.7400	5967.8600	-154.22	62.7881	90C-160	11.65	2013
2884.7100	6618.2100	-11.15	62.5497	91C-25	11.15	2012
2884.7100	6618.2100	-36.16	62.8149	91C-50	11.15	2012
2884.7100	6618.2100	-59.45	62.8172	91C-75	11.15	2012
2884.7100	6618.2100	-86.66	62.6034	91C-100	11.15	2012
2884.7100	6618.2100	-114.18	62.9200	91C-130	11.15	2012
2884.7100	6618.2100	-155.59	62.8280	91C-160	11.15	2012
2699.5900	4831.3600	-9.66	62.5379	92C-25	10.68	2012
2699.5900	4831.3600	-34.5	62.8022	92C-50	10.68	2012
2699.5900	4831.3600	-58.5	63.1198	92C-75	10.68	2012
2699.5900	4831.3600	-84.73	62.9872	92C-100	10.68	2012
2699.5900	4831.3600	-114.15	62.9018	92C-130	10.68	2012
2699.5900	4831.3600	-154.29	63.1428	92C-160	10.68	2012
3414.2500	4036.2200	-11.4	62.5529	93C-25	11.12	2012
3414.2500	4036.2200	-36.45	63.3048	93C-50	11.12	2012
3414.2500	4036.2200	-61.45	63.5099	93C-75	11.12	2012
3414.2500	4036.2200	-85.62	63.4799	93C-100	11.12	2012
3414.2500	4036.2200	-116.39	63.4961	93C-130	11.12	2013
3414.2500	4036.2200	-156.45	63.6595	93C-160	11.12	2013
3909.7000	6402.7000	-9.96	63.5211	94C-25	11.29	2012
3909.7000	6402.7000	-34.94	63.7621	94C-50	11.29	2012
3909.7000	6402.7000	-59.82	63.8374	94C-75	11.29	2013
3909.7000	6402.7000	-84.87	64.1953	94C-100	11.29	2013
3909.7000	6402.7000	-114.51	68.5013	94C-130	11.29	2013
3909.7000	6402.7000	-154.83	62.9384	94C-160	11.29	2012
4029.0300	4235.8100	-10.2	62.5107	95C-25	10.9	2012
4029.0300	4235.8100	-35.22	62.5839	95C-50	10.9	2012
4029.0300	4235.8100	-60.2	63.6381	95C-75	10.9	2012
4029.0300	4235.8100	-85.22	63.0396	95C-100	10.9	Updated as per USEPA recommendation on Dec 31 2012
4029.0300	4235.8100	-115.21	63.1171	95C-130	10.9	2012
4029.0300	4235.8100	-146.17	63.7100	95C-160	10.9	2012
3887.6672	5362.3787	-112.9	62.5363	CH1 (123' to 126')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls

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**GROUNDWATER DENSITY DATASET
OCCIDENTAL CHEMICAL CORPORATION
TACOMA, WASHINGTON**

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
3887.6672	5362.3787	-138.4	62.7410	CH1 (148' to 152')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3887.6672	5362.3787	-13.4	63.3210	CH1 (23' to 27')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3887.6672	5362.3787	-38.4	64.3746	CH1 (48' to 52')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3887.6672	5362.3787	3.1	62.8125	CH1 (7' to 10')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3887.6672	5362.3787	-63.4	66.0746	CH1 (73' to 77')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3887.6672	5362.3787	-88.4	67.7127	CH1 (98' to 102')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3792.5350	5299.1640	-113.4	62.6253	CH2 (123' to 127')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3792.5350	5299.1640	-13.4	62.4007	CH2 (23' to 27')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3792.5350	5299.1640	-38.4	66.9900	CH2 (48' to 52')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3792.5350	5299.1640	-63.4	65.1073	CH2 (73' to 77')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3792.5350	5299.1640	-88.4	62.5275	CH2 (98' to 102')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3700.8493	5386.1154	-0.4	62.5008	CH3 (10' to 14')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3700.8493	5386.1154	-113.4	62.4744	CH3 (123' to 127')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3700.8493	5386.1154	-10.9	62.5543	CH3 (21' to 24')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3700.8493	5386.1154	-38.4	63.2581	CH3 (48' to 52')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3700.8493	5386.1154	-63.4	64.7997	CH3 (73' to 77')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3700.8493	5386.1154	-88.4	62.6331	CH3 (98' to 102')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	-113.4	62.3764	CH4 (123' to 127')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	-138.4	62.6870	CH4 (148' to 152')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	-13.4	63.4139	CH4 (23' to 27')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	-38.4	64.0289	CH4 (48' to 52')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	-63.4	65.9920	CH4 (73' to 77')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	0.6	62.5978	CH4 (9' to 13')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3776.4261	5433.8316	-88.4	66.7116	CH4 (98' to 102')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3785.7906	5367.8754	1.1	65.6668	CH5 (9' to 12')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
2944.4500	4349.0800	2.68	62.3429	HC-N11-5	11.29	2012
3003.3600	4283.4800	1.18	62.3577	HC-N11-6	11.07	2012
3006.6700	4420.9800	2.18	62.4013	HC-N11-8	11.66	2012
3606.6500	6586.7600	-186.92	62.9640	MW-EXT-9-Deep	12.58	2013
3606.6500	6586.7600	-90.42	64.3931	MW-EXT-9-Deep (102-104)	12.58	2013
3606.6500	6586.7600	-100.42	66.2170	MW-EXT-9-Deep (112-114)	12.58	2013
3606.6500	6586.7600	-110.42	66.4592	MW-EXT-9-Deep (122-124)	12.58	2013
3606.6500	6586.7600	-120.42	67.2326	MW-EXT-9-Deep (132-134)	12.58	2013
3606.6500	6586.7600	-130.42	66.4304	MW-EXT-9-Deep (142-144)	12.58	2013
3606.6500	6586.7600	-140.42	68.1343	MW-EXT-9-Deep (152-154)	12.58	2013
3606.6500	6586.7600	-150.42	68.4835	MW-EXT-9-Deep (162-164)	12.58	2013
3606.6500	6586.7600	-160.42	62.8108	MW-EXT-9-Deep (172-174)	12.58	2013
3606.6500	6586.7600	-170.42	62.5706	MW-EXT-9-Deep (182-184)	12.58	2013
3606.6500	6586.7600	-180.42	62.5458	MW-EXT-9-Deep (192-194)	12.58	2013
3606.6500	6586.7600	-190.42	62.7217	MW-EXT-9-Deep (202-204)	12.58	2013
3606.6500	6586.7600	-60.42	63.6510	MW-EXT-9-Deep (72-74)	12.58	2013
3606.6500	6586.7600	-70.42	63.6467	MW-EXT-9-Deep (82-84)	12.58	2013
3606.6500	6586.7600	-80.42	63.8354	MW-EXT-9-Deep (92-94)	12.58	2013
3603.0200	6586.6200	-139.94	74.8846	MW-EXT-9-Int	12.56	2013
3606.8000	6581.0900	-107.91	66.6387	MW-EXT-9-Shallow	12.59	2013
3764.6700	7098.9000	-162.33	62.9811	MW-F-DEEP	11.17	2013
3764.6700	7098.9000	-96.83	62.2390	MW-F-DEEP (107-109)	11.17	2013
3764.6700	7098.9000	-106.83	62.3187	MW-F-DEEP (117-119)	11.17	2013
3764.6700	7098.9000	-116.83	62.5173	MW-F-DEEP (127-129)	11.17	2013
3764.6700	7098.9000	-126.83	62.2836	MW-F-DEEP (137-139)	11.17	2013
3764.6700	7098.9000	-136.83	62.7307	MW-F-DEEP (147-149)	11.17	2013
3764.6700	7098.9000	-146.83	62.7187	MW-F-DEEP (157-159)	11.17	2013
3764.6700	7098.9000	-156.83	62.6175	MW-F-DEEP (167-169)	11.17	2013
3764.6700	7098.9000	-166.83	62.7443	MW-F-DEEP (177-179)	11.17	2013
3764.6700	7098.9000	-46.83	62.1523	MW-F-DEEP (57-59)	11.17	2013
3764.6700	7098.9000	-56.83	62.4451	MW-F-DEEP (67-69)	11.17	2013
3764.6700	7098.9000	-66.83	62.2409	MW-F-DEEP (77-79)	11.17	2013
3764.6700	7098.9000	-76.83	62.0927	MW-F-DEEP (87-89)	11.17	2013
3764.6700	7098.9000	-86.83	62.3907	MW-F-DEEP (97-99)	11.17	2013
3764.6400	7104.3300	-126.35	64.7088	MW-F-Int	11.15	2013
3769.2600	7104.0200	-84.3	62.8564	MW-F-Shallow-New	11.2	2013
3146.8900	7018.3300	-209.52	62.8575	MW-G-DEEP	10.38	2013
3146.8900	7018.3300	-92.62	63.6171	MW-G-DEEP (102-104)	10.38	2013
3146.8900	7018.3300	-102.62	63.4204	MW-G-DEEP (112-114)	10.38	2013
3146.8900	7018.3300	-112.62	62.8923	MW-G-DEEP (122-124)	10.38	2013
3146.8900	7018.3300	-122.62	64.1439	MW-G-DEEP (132-134)	10.38	2013
3146.8900	7018.3300	-132.62	65.6436	MW-G-DEEP (142-144)	10.38	2013
3146.8900	7018.3300	-142.62	63.9029	MW-G-DEEP (152-154)	10.38	2013
3146.8900	7018.3300	-152.62	62.5846	MW-G-DEEP (162-164)	10.38	2013
3146.8900	7018.3300	-162.62	63.3376	MW-G-DEEP (172-174)	10.38	2013
3146.8900	7018.3300	-172.62	62.8841	MW-G-DEEP (182-184)	10.38	2013

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<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
3146.8900	7018.3300	-182.62	62.6794	MW-G-DEEP (192-194)	10.38	2013
3146.8900	7018.3300	-192.62	62.8398	MW-G-DEEP (202-204)	10.38	2013
3146.8900	7018.3300	-202.62	62.9849	MW-G-DEEP (212-214)	10.38	2013
3146.8900	7018.3300	-212.62	62.6742	MW-G-DEEP (222-224)	10.38	2013
3146.8900	7018.3300	-42.62	62.8044	MW-G-DEEP (52-54)	10.38	2013
3146.8900	7018.3300	-52.62	62.9785	MW-G-DEEP (62-64)	10.38	2013
3146.8900	7018.3300	-62.62	63.2952	MW-G-DEEP (72-74)	10.38	2013
3146.8900	7018.3300	-72.62	63.3055	MW-G-DEEP (82-84)	10.38	2013
3146.8900	7018.3300	-82.62	63.3145	MW-G-DEEP (92-94)	10.38	2013
3153.4300	7018.6600	-158.11	62.74836672	MW-G-Int	10.39	2013
3138.6000	7018.6200	-132.13	65.9133	MW-G-Shallow	10.37	2013
3736.8200	6790.4800	-153.34	62.4680	MW-H-01	11.41	2013
3736.8200	6790.4800	-91.59	63.7927	MW-H-01 (102-104)	11.41	2013
3736.8200	6790.4800	-101.59	64.5752	MW-H-01 (112-114)	11.41	2013
3736.8200	6790.4800	-111.59	66.8774	MW-H-01 (122-124)	11.41	2013
3736.8200	6790.4800	-121.59	67.2704	MW-H-01 (132-134)	11.41	2013
3736.8200	6790.4800	-131.59	65.1343	MW-H-01 (142-144)	11.41	2013
3736.8200	6790.4800	-141.59	68.5956	MW-H-01 (152-154)	11.41	2013
3736.8200	6790.4800	-151.59	63.0918	MW-H-01 (162-164)	11.41	2013
3736.8200	6790.4800	-161.59	62.8047	MW-H-01 (172-174)	11.41	2013
3736.8200	6790.4800	-171.59	62.3586	MW-H-01 (182-184)	11.41	2013
3736.8200	6790.4800	-61.59	63.5676	MW-H-01 (72-74)	11.41	2013
3736.8200	6790.4800	-71.59	63.6867	MW-H-01 (82-84)	11.41	2013 - No Temperature value in dbase - Temperature is an average from
3736.8200	6790.4800	-81.59	63.4969	MW-H-01 (92-94)	11.41	2013
4035.5409	6536.3141	-20.89	63.7571	PZ-SHI-001-033	-18.14	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4037.3995	6528.7878	-61.62	63.5904	PZ-SHI-001-075	-18.12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4036.9559	6531.9774	-86.61	64.2171	PZ-SHI-001-100	-18.11	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4035.5899	6534.9697	-114.64	66.8859	PZ-SHI-001-126	-16.14	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4023.8460	5820.9591	-12.82	63.2107	PZ-SHI-002-025	-8.57	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4044.6672	5113.4238	-28.78	63.6096	PZ-SHI-003-042	-13.78	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4044.5760	5116.5369	-85.82	64.7803	PZ-SHI-003-100	-13.28	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4020.8300	5822.6300	-86.14	67.0582	PZ-SHI-2-100	-5.94	2012
4017.1000	5823.6100	-61.18	64.7069	PZ-SHI-2-75	-4.18	2012
4045.2100	5120.7700	-60.28	64.6179	PZ-SHI-3-75	-13.28	2012
3799.9300	6470.1800	-92.45	64.5047	SB-B-DEEP (102-104)	10.55	2013
3799.9300	6470.1800	-102.45	65.8248	SB-B-DEEP (112-114)	10.55	2013
3799.9300	6470.1800	-112.45	66.7624	SB-B-DEEP (122-124)	10.55	2013
3799.9300	6470.1800	-122.45	66.9622	SB-B-DEEP (132-134)	10.55	2013
3799.9300	6470.1800	-132.45	66.7052	SB-B-DEEP (142-144)	10.55	2013
3799.9300	6470.1800	-142.45	69.8098	SB-B-DEEP (152-154)	10.55	2013
3799.9300	6470.1800	-152.45	63.2482	SB-B-DEEP (162-164)	10.55	2013
3799.9300	6470.1800	-162.45	63.9550	SB-B-DEEP (172-174)	10.55	2013
3799.9300	6470.1800	-172.45	64.0548	SB-B-DEEP (182-184)	10.55	2013
3799.9300	6470.1800	-182.45	62.7598	SB-B-DEEP (192-194)	10.55	2013
3799.9300	6470.1800	-62.45	63.6012	SB-B-DEEP (72-74)	10.55	2013
3799.9300	6470.1800	-72.45	63.4984	SB-B-DEEP (82-84)	10.55	2013
3799.9300	6470.1800	-82.45	63.8673	SB-B-DEEP (92-94)	10.55	2013
3846.6479	5845.2462	-118.4	70.8259	SP1 (128' to 132')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3851.7825	5669.0205	-128.4	63.0651	SP2 (138' to 142')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3851.7825	5669.0205	-7.9	64.3073	SP2 (18' to 21')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3851.7825	5669.0205	-37.9	63.9434	SP2 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3851.7825	5669.0205	2.1	62.7850	SP2 (8' to 11')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3851.7825	5669.0205	-87.9	73.4738	SP2 (98' to 101')	11.6	Updated as per USEPA recommendation on Dec 31 2012
3766.3167	5794.4704	-118.4	66.1442	SP3 (128' to 132')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3766.3167	5794.4704	-7.9	65.0096	SP3 (18' to 21')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3766.3167	5794.4704	-37.9	64.0337	SP3 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3766.3167	5794.4704	3.1	62.9721	SP3 (7' to 10')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3766.3167	5794.4704	-88.4	70.4096	SP3 (99' to 101')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3623.1484	5675.7088	-7.9	62.9064	SP4 (18' to 21')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3623.1484	5675.7088	-37.9	63.1429	SP4 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3623.1484	5675.7088	1.1	62.6222	SP4 (9' to 12')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3620.8054	5840.6152	-118.4	62.6397	SP5 (128' to 132')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3620.8054	5840.6152	-7.9	64.0968	SP5 (18' to 21')	11.6	Updated as per USEPA recommendation on Dec 31 2012
3620.8054	5840.6152	-37.9	63.9697	SP5 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3620.8054	5840.6152	-77.9	65.9840	SP5 (88' to 91')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3620.8054	5840.6152	1.1	63.3145	SP5 (9' to 12')	11.6	Updated as per USEPA recommendation on Dec 31 2012
3620.8054	5840.6152	-87.9	66.8082	SP5 (98' to 101')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3737.4861	5840.3877	-127.4	62.7145	SP6 (137' to 141')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3737.4861	5840.3877	-7.9	65.5944	SP6 (18' to 21')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3737.4861	5840.3877	-37.9	64.7048	SP6 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3737.4861	5840.3877	3.1	63.7404	SP6 (7' to 10')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls

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TACOMA, WASHINGTON**

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
3737.4861	5840.3877	-87.9	67.3541	SP6 (98' to 101')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3879.4443	5800.0604	-117.4	64.3212	SP7 (127' to 131')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3879.4443	5800.0604	-7.9	66.2817	SP7 (18' to 21')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3879.4443	5800.0604	-37.9	65.0803	SP7 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3879.4443	5800.0604	2.1	62.5418	SP7 (8' to 11')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3891.3054	5942.8956	0.1	62.9505	SP8 (10' to 13')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3891.3054	5942.8956	-114.4	66.5434	SP8 (124' to 128')	11.6	Updated as per USEPA recommendation on Dec 31 2012
3891.3054	5942.8956	-7.9	63.9309	SP8 (18' to 21')	11.6	Updated as per USEPA recommendation on Dec 31 2012
3891.3054	5942.8956	-37.9	65.0148	SP8 (48' to 51')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3891.3054	5942.8956	-87.9	68.0567	SP8 (98' to 101')	11.6	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3844.5787	5985.9317	-10.28	62.9320	T1-25	10.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3844.0315	5979.7143	-35.35	64.9651	T1-50	10.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3844.2084	5973.7140	-85.43	66.6505	T1-100	10.57	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3835.2000	5981.3500	-35.33	63.7232	T3-50	10.67	2012
3956.7488	5699.1683	-9.6	63.5085	T5-25	11.7	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3957.4500	5688.3100	-104.3	69.4569	T5-120	11.59	2013
3922.7720	5696.5347	-10	62.9184	T6-25	10.85	SG_Mudline_KrigingFile_Jul6-11-Post.xls
3923.8400	5689.6600	-44.9	63.9726	T6-60	10.77	2012
3926.4953	5684.1161	-105	62.4791	T6-120	10.75	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4154.6279	6514.0942	-88.82	65.3040	WW-A1-100	-42.12	revised 2012 - transcription error per IKR
4154.6279	6514.0942	-118.32	63.6963	WW-A1-130	-42.12	revised 2012 - transcription error per IKR
4154.6279	6514.0942	-148.82	62.8145	WW-A1-160	-42.12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4154.6279	6514.0942	-45.62	63.6840	WW-A1-2	-42.12	revised 2012 - transcription error per IKR
4154.6279	6514.0942	-49.12	63.7975	WW-A1-7	-42.12	Updated as per USEPA recommendation on Dec 31 2012
4380.7400	6858.8300	-109.4	62.5575	WW-A1D (-109.4)	-42.4	2012
4380.7400	6858.8300	-119.4	62.7175	WW-A1D (-119.4)	-42.4	2012
4380.7400	6858.8300	-129.4	62.5966	WW-A1D (-129.4)	-42.4	2012
4380.7400	6858.8300	-139.4	63.4893	WW-A1D (-139.4)	-42.4	2012
4380.7400	6858.8300	-152.4	63.6667	WW-A1D (-152.4)	-42.4	2012
4380.7400	6858.8300	-44.4	63.7892	WW-A1D (-44.4)	-42.4	2012
4380.7400	6858.8300	-48.4	63.7294	WW-A1D (-48.4)	-42.4	2012
4380.7400	6858.8300	-53.4	63.4881	WW-A1D (-53.4)	-42.4	2012
4380.7400	6858.8300	-64.4	62.4116	WW-A1D (-64.4)	-42.4	2012
4380.7400	6858.8300	-89.4	62.5143	WW-A1D (-89.4)	-42.4	2012
4171.0300	6502.0100	-105.5	66.1832	WW-A1R (-105.5)	-40.5	2012
4171.0300	6502.0100	-115.5	66.4884	WW-A1R (-115.5)	-40.5	2012
4171.0300	6502.0100	-125.5	64.2071	WW-A1R (-125.5)	-40.5	2012
4171.0300	6502.0100	-135.5	63.3533	WW-A1R (-135.5)	-40.5	2012
4171.0300	6502.0100	-146.5	63.2901	WW-A1R (-146.5)	-40.5	2012
4171.0300	6502.0100	-42.5	63.7765	WW-A1R (-42.5)	-40.5	2012
4171.0300	6502.0100	-46.5	63.7878	WW-A1R (-46.5)	-40.5	2012
4171.0300	6502.0100	-51.5	63.7853	WW-A1R (-51.5)	-40.5	2012
4171.0300	6502.0100	-60.5	63.8092	WW-A1R (-60.5)	-40.5	2012
4171.0300	6502.0100	-70.5	63.8174	WW-A1R (-70.5)	-40.5	2012
4171.0300	6502.0100	-85.5	65.0743	WW-A1R (-85.5)	-40.5	2012
4171.0300	6502.0100	-95.5	65.8477	WW-A1R (-95.5)	-40.5	2012
4395.9473	6480.4944	-88.32	64.1430	WW-A2-100	-42.92	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4395.9473	6480.4944	-54.92	63.8049	WW-A2-12	-42.92	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4395.9473	6480.4944	-118.32	62.5188	WW-A2-130	-42.92	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4395.9473	6480.4944	-148.52	62.6248	WW-A2-160	-42.92	revised 2012 - transcription error per IKR
4395.9473	6480.4944	-45.92	63.9510	WW-A2-2	-42.92	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4395.9473	6480.4944	-49.92	64.0432	WW-A2-7	-42.92	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4395.9473	6480.4944	-63.32	63.9571	WW-A2-75	-42.92	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4688.0366	6525.2809	-91.82	62.6282	WW-A3-100	8.68	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4688.0366	6525.2809	-120.82	62.6687	WW-A3-130	8.68	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4688.0366	6525.2809	-16.82	62.5618	WW-A3-25	8.68	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4688.0366	6525.2809	-41.82	62.5666	WW-A3-50	8.68	Updated as per USEPA recommendation on Dec 31 2012
4688.0366	6525.2809	-66.82	63.8839	WW-A3-75	8.68	revised 2012 - transcription error per IKR
4823.3952	6499.0500	-87.43	62.4568	WW-A4-100	11.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4823.3952	6499.0500	-117.43	62.4522	WW-A4-130	11.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4823.3952	6499.0500	-147.43	62.5757	WW-A4-160	11.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4823.3952	6499.0500	-13.43	62.8308	WW-A4-25	11.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4823.3952	6499.0500	-37.43	62.4370	WW-A4-50	11.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4823.3952	6499.0500	-62.43	62.6382	WW-A4-75	11.07	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4147.2353	5837.4241	-88.15	66.6019	WW-B1-100	-48.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4147.2353	5837.4241	-60.65	65.0657	WW-B1-12	-48.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4147.2353	5837.4241	-118.15	63.6536	WW-B1-130	-48.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4147.2353	5837.4241	-148.15	63.6063	WW-B1-160	-48.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4147.2353	5837.4241	-51.65	63.7598	WW-B1-2	-48.65	revised 2012 - transcription error per IKR
4147.2353	5837.4241	-55.65	64.8026	WW-B1-7	-48.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4147.2353	5837.4241	-63.15	65.1380	WW-B1-75	-48.65	SG_Mudline_KrigingFile_Jul6-11-Post.xls

ATTACHMENT K-1

GROUNDWATER DENSITY DATASET
 OCCIDENTAL CHEMICAL CORPORATION
 TACOMA, WASHINGTON

<i>E_Model</i>	<i>N_Model</i>	<i>Mid-Elevation</i>	<i>Density at Field Measured Temperature (Assume fresh = 62.4) lb/ft³</i>	<i>LocName</i>	<i>Ground</i>	<i>Data source</i>
4388.2930	5831.4093	-88.82	63.8105	WW-B2-100	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4388.2930	5831.4093	-54.82	64.0605	WW-B2-13	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4388.2930	5831.4093	-118.82	62.5589	WW-B2-130	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4388.2930	5831.4093	-148.82	62.5078	WW-B2-160	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4388.2930	5831.4093	-44.82	63.8631	WW-B2-2	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4388.2930	5831.4093	-62.82	64.3428	WW-B2-75	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4388.2930	5831.4093	-49.82	64.4726	WW-B2-8	-41.82	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-88.42	63.2969	WW-B3-100	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-118.42	62.5565	WW-B3-130	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-148.42	62.6269	WW-B3-160	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-7.42	62.7496	WW-B3-2	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-16.42	62.5155	WW-B3-25	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-39.42	63.7648	WW-B3-50	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-11.42	62.6715	WW-B3-7	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4679.8342	5842.2591	-64.42	63.7709	WW-B3-75	-4.42	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4856.8181	5941.2374	-88.12	62.9000	WW-B4-100	-2.12	revised 2012 - transcription error per IKR
4856.8181	5941.2374	-118.12	63.4329	WW-B4-130	-2.12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4856.8181	5941.2374	-148.12	62.8055	WW-B4-160	-2.12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4856.8181	5941.2374	-14.12	62.8947	WW-B4-25	-2.12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4856.8181	5941.2374	-39.12	63.3622	WW-B4-50	-2.12	Updated as per USEPA recommendation on Dec 31 2012
4856.8181	5941.2374	-63.12	62.6869	WW-B4-75	-2.12	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4155.4303	5118.7776	-86.89	64.9198	WW-C1-100	-46.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4155.4303	5118.7776	-58.79	63.9268	WW-C1-12	-46.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4155.4303	5118.7776	-49.29	63.8918	WW-C1-2	-46.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4155.4303	5118.7776	-53.79	63.9892	WW-C1-7	-46.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4155.4303	5118.7776	-61.89	63.6983	WW-C1-75	-46.79	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4407.9601	5122.4783	-88.84	62.8157	WW-C2-100	-38.44	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4407.9601	5122.4783	-51.94	63.8348	WW-C2-13.5	-38.44	Modified as per Agency request
4407.9601	5122.4783	-118.84	62.8128	WW-C2-130	-38.44	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4407.9601	5122.4783	-148.84	63.6217	WW-C2-160	-38.44	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4407.9601	5122.4783	-41.94	63.7639	WW-C2-2	-38.44	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4407.9601	5122.4783	-63.84	62.6299	WW-C2-75	-38.44	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4407.9601	5122.4783	-46.94	64.2096	WW-C2-8.5	-38.44	SG_Mudline_KrigingFile_Jul6-11-Post.xls
5000.0168	5130.5962	-89.27	62.5207	WW-C3-100	10.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
5000.0168	5130.5962	-119.27	62.5202	WW-C3-130	10.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
5000.0168	5130.5962	-147.27	62.5184	WW-C3-160	10.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
5000.0168	5130.5962	-14.27	62.5189	WW-C3-25	10.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
5000.0168	5130.5962	-39.27	62.5189	WW-C3-50	10.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
5000.0168	5130.5962	-64.27	62.5191	WW-C3-75	10.23	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4698.9532	5099.3914	-88.32	63.0359	WW-C4-100	-24.72	revised 2012 - transcription error per IKR
4698.9532	5099.3914	-118.32	62.5652	WW-C4-130	-24.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4698.9532	5099.3914	-149.32	62.6477	WW-C4-160	-24.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4698.9532	5099.3914	-27.72	62.6367	WW-C4-2	-24.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4698.9532	5099.3914	-36.72	62.6318	WW-C4-50	-24.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4698.9532	5099.3914	-31.72	62.8704	WW-C4-7	-24.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4698.9532	5099.3914	-63.32	62.3826	WW-C4-75	-24.72	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4262.9506	6039.9358	-88.32	66.3161	WW-D1-100	-42.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4262.9506	6039.9358	-54.32	64.2069	WW-D1-12	-42.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4262.9506	6039.9358	-118.32	66.1243	WW-D1-130	-42.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4262.9506	6039.9358	-45.32	63.8073	WW-D1-2	-42.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4262.9506	6039.9358	-49.32	63.9178	WW-D1-7	-42.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls
4262.9506	6039.9358	-63.32	64.4542	WW-D1-75	-42.32	SG_Mudline_KrigingFile_Jul6-11-Post.xls

Attachment K-2

MVS/EVS 4DIM for 3-D Model of Groundwater Density