

Metropolitan Water Reclamation District of Greater Chicago

# MONITORING AND RESEARCH DEPARTMENT

REPORT NO. 16-22

TUNNEL AND RESERVOIR PLAN

DES PLAINES TUNNEL SYSTEM

ANNUAL GROUNDWATER MONITORING REPORT

**FOR 2015** 

July 2016

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ANNUAL GROUNDWATER MONITORING REPORT
FOR 2015

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#### LIST OF ABBREVIATIONS

degrees Celsius colony forming units °C CFU

chloride  $C1^{-}$ 

EC electrical conductivity

FC fecal coliform

ft feet hr hour L liter m meter milligram mg mS millisiemens NH<sub>3</sub>-N SO<sub>4</sub><sup>2-</sup> ammonia nitrogen

sulfate

TDS total dissolved solids TOC total organic carbon

#### ANNUAL DATA FOR MONITORING WELLS

#### Introduction

All monitoring wells are located along the 13A extension, south leg, middle leg, and north leg of the Des Plaines Tunnel System (Figure 1). Monitoring wells QD-21 through -26, -28 through -32, -35, -36, and -38 through -60 are sampled three times per year, while QD-27, -33, -34, and -37 are sampled six times per year (Illinois Environmental Protection Agency memoranda July 9, 2004, and February 23, 2006).

All monitoring wells in the Des Plaines Tunnel System were sampled at the required frequencies during 2015. All required samples from Wells QD-40 and -41 were retrieved during 2015 with the use of a higher-capacity generator. Only two of the required three samples were retrieved from Wells QD-49 during 2015. This well is classified as intermittently dry.

There are no observation wells in the Des Plaines Tunnel System. However, groundwater elevations in the monitoring wells (<u>Table 1</u>) were measured during each sampling event.

#### **Summary of Data for Monitoring Wells**

The analytical data for groundwater sampled during 2015 from monitoring wells QD-21 through QD-60 are presented in <u>Table 1</u>. Physical characteristics, such as elevation, groundwater temperature, and estimated time of recharge for each well between initial drawdown and sampling, are also included. Fecal coliform counts for most wells were non-detectable, but there were low detections in several wells. Low FC counts detected in Well QD-31 only occurred for two consecutive years (1 and 20 CFU/100 mL in 2014, and 1, 31, and 3 CFU/100 mL in 2015).

<u>Table 2</u> lists the descriptive statistics for groundwater data of monitoring wells QD-21 through QD-60 for 2015.

FIGURE 1: MAP OF MONITORING WELLS IN THE DES PLAINES TUNNEL SYSTEM

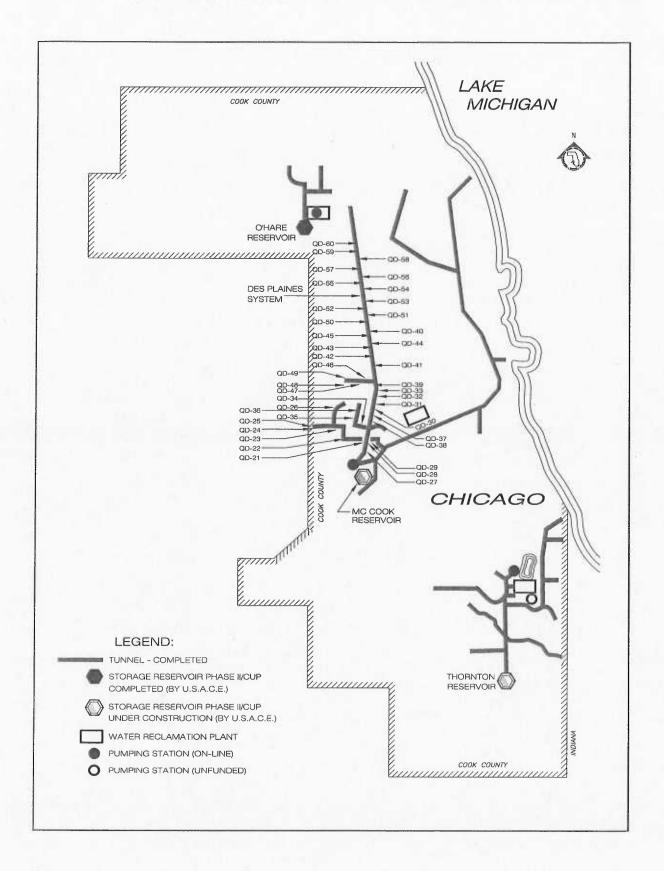


TABLE 1: ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC <sup>1</sup>	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m				mg/L			CFU/100 mL	°C	ft	hr
QD-21	05/11/15	6.8	148	1,344	<1	272	366	0.27	728	<1	13.4	-49	<4
QD-21	08/05/15	7.0	183	1,380	<1	281	348	0.23	804	<1	14.1	-47	<4
QD-21	11/09/15	8.0	207	1,344	<1	280	333	0.20	771	<1	12.9	-55	<4
QD-22	05/11/15	7.0	123	926	1	124	244	0.42	675	<1	13.6	-20	<4
QD-22	08/05/15	7.1	139	948	1	126	223	0.42	663	<1	14.3	-18	<4
QD-22	11/09/15	7.9	158	964	1	132	231	0.37	677	<1	13.3	-24	<4
QD-23	05/11/15	6.8	160	1,258	2	215	325	0.56	816	<1	13.7	-27	<4
QD-23	08/05/15	7.0	192	1,218	2	210	330	0.56	778	<1	14.2	-26	<4
QD-23	11/09/15	7.2	188	1,214	1	202	322	0.50	810	<1	13.5	-33	<4
QD-24	05/11/15	7.2	112	670	2	109	161	0.50	453	<1	12.1	21	<4
QD-24	08/05/15	7.2	150	788	2	104	181	0.53	557	<1	12.1	21	<4
QD-24	11/09/15	7.4	164	724	2	103	153	0.46	513	<1	12.0	18	<4
QD-25	05/11/15	7.2	208	1,586	2	503	283	0.74	712	<1	11.7	32	<4
QD-25	08/05/15	7.0	267	1,482	2	467	254	0.74	651	<1	11.0	32	<4
QD-25	11/09/15	7.2	268	1,492	1	479	243	0.66	678	<1	11.2	30	<4
QD-26	05/28/15	7.0	60	490	<1	11	97	0.38	409	<1	13.1	-6.8	<4
QD-26	08/19/15	7.4	85	462	1	10	83	0.36	391	<1	13.2	-4.8	<4
QD-26	11/12/15	7.6	82	488	<1	13	101	0.30	425	<1	12.3	-8.8	<4
QD-27	01/22/15	7.3	174	1,184	16	363	36	31	470	<1	11.9	-192	<48
QD-27	03/05/15	6.8	175	1,202	15	377	26	31	471	<1	11.3	-183	<48

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TABLE 1 (Continued): ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC1	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m				mg/L			CFU/100 mL	°C	ft	hr
QD-27	04/29/15	7.5	165	1,222	15	354	<5	30	500	<1	13.9	-191	<48
QD-27	10/15/15	7.4	221	1,244	16	343	49	30	456	71	12.8	-199	<48
QD-27	11/12/15	7.3	254	1,234	17	365	32	29	463	4	12.6	-215	<48
QD-27	12/09/15	6.8	224	1,212	16	349	35	30	459	4	12.3	-190	<48
QD-28	05/04/15	6.8	124	848	7	161	165	0.65	513	<1	14.5	-110	<4
QD-28	08/31/15	7.2	95	938	2	143	163	0.90	489	<1	14.4	-107	<4
QD-28	11/09/15	7.1	112	770	<1	153	149	0.70	508	<1	14.4	-115	<4
QD-29	05/04/15	6.8	134	1,108	2	168	260	0.47	736	<1	14.4	-94	<4
QD-29	08/31/15	6.8	165	1,174	2	160	275	0.47	687	<1	14.1	-94	<4
QD-29	11/09/15	7.0	161	1,062	1	157	280	0.40	741	<1	13.2	-105	<4
QD-30	05/28/15	6.9	106	1,150	1	155	320	0.32	700	<1	13.2	-103	<4
QD-30	08/19/15	7.1	124	1,036	<1	143	306	0.34	660	<1	13.3	-94	<4
QD-30	11/12/15	7.3	145	964	<1	127	275	0.33	584	<1	12.9	-119	<4
QD-31	05/28/15	7.5	110	908	<1	116	175	0.19	250	1	12.6	-194	<4
QD-31	08/19/15	7.4	143	860	<1	118	179	0.23	260	31	14.2	-163	<4
QD-31	11/12/15	7.5	138	892	<1	116	195	0.21	265	3	12.0	-199	<4
QD-32	05/28/15	9.3	243	2,000	<1	547	226	0.27	37	<1	13.1	-210	<48
QD-32	08/19/15	8.9	322	1,946	<1	549	240	0.22	34	<1	13.9	-210	<48
QD-32	11/12/15	7.9	314	1,860	<1	530	227	< 0.10	23	<1	12.2	-210	<48

TABLE 1 (Continued): ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC <sup>1</sup>	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m				mg/L···		***************************************	CFU/100 mL	°C	ft	hr
QD-33	01/22/15	8.9	195	1,532	<1	182	229	0.25	25	<1	11.3	-183	<48
QD-33	03/19/15	7.7	173	1,614	<1	363	245	0.24	26	<1	11.6	-185	<48
QD-33	04/29/15	8.3	202	1,598	<1	360	235	0.26	28	<1	13.3	-182	<48
QD-33	10/15/15	7.2	272	1,616	<1	345	195	0.95	27	4	12.3	-187	<48
QD-33	11/12/15	8.0	259	1,542	<1	342	200	0.10	25	<1	12.2	-185	<48
QD-33	12/09/15	8.3	258	1,572	<1	346	200	0.18	23	<1	12.0	-187	<48
QD-34	01/07/15	7.2	112	1,186	2	138	261	0.43	682	<1	11.3	-90	<4
QD-34	03/18/15	6.7	104	986	2	132	274	0.44	650	<1	11.9	-86	<4
QD-34	07/27/15	7.2	157	1,068	2	156	270	0.49	699	<1	15.5	-75	<4
QD-34	09/16/15	6.8	152	1,024	2	144	242	0.43	698	<1	13.0	-85	<4
QD-34	10/14/15	7.0	155	984	2	134	263	0.43	676	9	12.2	-88	<4
QD-34	12/02/15	6.5	147	1,018	1	128	270	0.39	685	<1	14.0	-85	<4
QD-35	05/27/15	6.8	113	1,012	2	149	231	1.5	639	<1	13.5	-80	<4
QD-35	08/31/15	7.1	136	1,002	2	89	249	0.36	650	<1	14.2	-80	<4
QD-35	11/09/15	8.6	145	984	1	134	246	0.35	654	<1	13.0	-86	<4
QD-36	05/27/15	6.4	121	1,202	1	128	338	0.37	795	<1	12.1	-94	<48
QD-36	08/31/15	7.0	165	1,178	2	114	302	0.34	766	<1	12.4	-97	<48
QD-36	11/09/15	8.0	157	1,120	1	124	333	0.32	797	<1	12.0	-107	<48
QD-37	01/22/15	8.0	170	1,384	<1	279	390	0.19	455	<1	11.8	-208	<48
QD-37	03/05/15	7.1	162	1,380	<1	283	384	0.14	439	<1	11.4	-198	<48
QD-37	04/29/15	7.3	172	1,368	<1	260	371	0.19	505	<1	13.1	-206	<48

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TABLE 1 (Continued): ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m				mg/L			CFU/100 mL	°C	ft	hr
QD-37	08/20/15	7.5	231	1,374	<1	251	379	0.23	470	<1	13.4	-192	<48
QD-37	10/15/15	7.4	225	1,384	<1	269	356	0.21	475	<1	13.3	-208	<48
QD-37	11/12/15	7.0	215	1,396	<1	257	368	0.26	526	<1	12.7	-216	<48
QD-38	05/28/15	8.2	96	798	<1	166	99	0.37	270	<1	14.2	-207	<48
QD-38	08/19/15	7.8	124	752	<1	166	109	0.37	259	<1	12.9	-205	<48
QD-38	11/12/15	7.6	116	812	<1	174	104	0.33	272	<1	12.3	-210	<48
QD-39	04/29/15	8.2	95	790	<1	28	97	< 0.10	23	<1	12.8	-135	<48
QD-39	08/20/15	8.2	117	778	<1	26	99	0.11	20	<1	12.4	-136	<48
QD-39	11/12/15	8.0	126	770	<1	26	106	< 0.10	19	<1	11.6	-155	<48
QD-40	02/05/15	9.1	110	716	1	15	378	< 0.10	19	<1	10.3	-90	<48
QD-40	08/20/15	9.0	122	750	1	14	394	0.15	27	<1	13.2	-118	<48
QD-40	12/09/15	9.2	115	750	<1	14	382	0.11	14	<1	12.9	-113	<48
QD-41	02/05/15	8.6	77	718	1	16	369	0.33	413	<1	11.8	-138	<48
QD-41	08/20/15	7.3	109	724	2	15	351	0.33	431	<1	13.2	-138	<48
QD-41	12/09/15	7.5	102	708	1	17	337	0.25	387	<1	12.5	-146	<48
QD-42	02/26/15	7.2	76	676	1	21	302	0.29	376	<1	10.3	-121	<48
QD-42	08/20/15	7.4	112	706	1	19	293	0.30	388	<1	12.2	-125	<48
QD-42	12/09/15	7.6	103	720	1	19	278	0.25	385	<1	11.9	-123	<48

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TABLE 1 (Continued): ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC1	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m	~~~~~			mg/L···			CFU/100 mL	°C	ft	hr
QD-43	02/26/15	7.2	104	656	1	49	245	0.33	456	<1	10.4	-142	<4
QD-43	08/20/15	7.1	112	686	1	47	229	0.34	470	<1	12.0	-140	<4
QD-43	12/09/15	7.1	106	676	<1	46	220	0.32	435	<1	11.7	-138	<4
QD-44	02/26/15	7.8	55	532	1	18	225	0.35	317	<1	9.8	-7.6	<48
QD-44	08/20/15	7.7	88	566	1	18	216	0.36	326	<1	11.2	-6.6	<48
QD-44	12/09/15	7.7	86	572	<1	23	198	0.34	318	<1	10.9	-4.6	<48
QD-45	02/26/15	9.0	54	478	1	17	225	0.31	101	<1	8.5	-5.5	<4
QD-45	08/20/15	8.9	83	536	1	18	216	0.33	93	<1	11.6	-3.5	<4
QD-45	12/09/15	9.2	79	546	1	17	211	0.32	104	<1	11.4	-3.5	<4
QD-46	05/27/15	7.9	68	572	2	13	103	0.23	66	<1	13.0	-177	<48
QD-46	08/31/15	7.8	92	656	1	14	100	0.23	68	1	14.0	-182	<48
QD-46	11/12/15	7.8	88	552	<1	11	113	0.20	64	15	11.9	-182	<48
QD-47	01/15/15	8.0	59	478	1	16	152	0.29	241	<1	12.5	-0.20	<48
QD-47	03/05/15	7.4	56	432	1	15	150	0.29	242	<1	11.3	8.8	<48
QD-47	10/29/15	7.8	78	508	<1	13	153	0.55	241	<1	13.1	8.8	<48
QD-48	01/15/15	8.6	60	536	1	<10	298	0.11	292	<1	11.5	-178	<48
QD-48	03/05/15	7.6	63	568	1	<10	304	0.12	356	<1	11.0	-178	<48
QD-48	10/29/15	8.7	80	514	1	<10	277	0.31	257	11	12.5	-176	<48
QD-49	01/15/15	7.7	73	592	1	15	199	0.42	357	<1	12.2	-168	<48
QD-49	10/29/15	8.2	79	562	1	13	159	0.19	299	83	12.1	-182	<48

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TABLE 1 (Continued): ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC¹	Cl	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m				mg/L			CFU/100 mL	°C	ft	hr
QD-50	05/07/15	9.2	85	672	1	12	281	0.20	6	<1	13.3	-138	<48
QD-50	08/13/15	9.2	106	668	1	12	286	0.12	6	<1	12.9	-132	<48
QD-50	11/05/15	9.7	104	686	1	11	299	0.11	8	<1	13.9	-140	<48
QD-51	05/07/15	9.2	68	526	1	12	129	< 0.10	5	<1	12.8	-113	<48
QD-51	08/13/15	9.2	88	534	1	12	127	< 0.10	6	<1	13.3	-118	<48
QD-51	11/05/15	9.3	88	544	<1	12.	127	< 0.10	16	<1	13.0	-118	<48
QD-52	05/07/15	9.2	63	482	1	15	140	0.12	19	<1	14.2	-96	<48
QD-52	08/13/15	8.7	39	492	. 1	15	155	0.12	21	<1	13.6	-105	<48
QD-52	11/05/15	8.8	79	488	<1	14	154	< 0.10	20	<1	13.7	-110	<48
QD-53	05/07/15	9.1	77	576	1	17	169	< 0.10	9	2	13.9	-166	<48
QD-53	08/13/15	8.9	46	586	1	18	177	< 0.10	12	<1	13.2	-168	<48
QD-53	11/05/15	8.1	93	570	1	18	173	< 0.10	10	<1	15.1	-167	<48
QD-54	05/07/15	8.9	55	436	<1	16	144	0.22	37	<1	12.9	-27	<48
QD-54	08/13/15	8.7	73	430	<1	16	149	0.23	49	<1	12.8	-34	<48
QD-54	11/05/15	9.0	72	450	<1	16	153	0.18	42	<1	12.7	-33	<48
QD-55	05/07/15	8.4	58	420	2	16	186	0.33	132	<1	13.0	-136	<48
QD-55	08/13/15	8.3	78	466	1	15	193	0.34	174	<1	12.9	-141	<48
QD-55	11/05/15	8.8	76	472	<1	15	190	0.33	173	<1	14.2	-141	<48

TABLE 1 (Continued): ANALYSIS OF GROUNDWATER FROM MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN SAMPLED DURING 2015

Well	Date Sampled	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform	Temp.	Water Elevation <sup>2</sup>	Recharge Time
			mS/m	**********			mg/L			CFU/100 mL	°C	ft	hr
QD-56	05/07/15	7.8	40	294	<1	10	12	0.26	53	<1	15.9	-70	<48
QD-56	08/13/15	8.4	26	316	<1	10	12	0.25	56	<1	12.5	-74	<48
QD-56	11/05/15	8.3	54	310	<1	<10	14	0.22	58	<1	11.7	-73	<48
QD-57	05/07/15	8.5	43	368	<1	12	54	0.24	19	<1	12.1	-112	<48
QD-57	08/13/15	8.8	30	386	<1	12	52	0.26	22	<1	12.9	-112	<48
QD-57	11/05/15	9.0	60	368	<1	12	58	0.22	19	<1	11.3	-109	<48
QD-58	05/07/15	8.0	33	260	<1	10	<5	0.33	117	<1	13.9	-111	<48
QD-58	08/13/15	8.0	46	276	<1	11	5	0.32	130	<1	13.3	-122	<48
QD-58	11/05/15	8.5	46	254	<1	10	<5	0.28	120	<1	13.2	-112	<48
QD-59	05/07/15	7.6	28	402	<1	86	33	0.35	259	<1	14.3	-46	<48
QD-59	08/13/15	7.8	73	462	1	87	33	0.35	261	<1	12.1	-49	<48
QD-59	11/05/15	8.8	74	390	<1	84	32	0.30	240	<1	12.7	-53	<48
QD-60	05/07/15	7.6	50	396	<1	42	95	0.39	260	<1	13.2	-106	<48
QD-60	08/13/15	7.8	68	432	<1	44	101	0.39	256	<1	12.6	-114	<48
QD-60	11/05/15	8.3	68	398	<1	42	105	0.35	264	<1	12.5	-107	<48

<sup>&</sup>lt;sup>1</sup>EC = electrical conductivity; TDS = total dissolved solids; TOC = total dissolved organic carbon.

<sup>2</sup>Relative to Chicago city datum (579.48 ft above mean sea level) at intersection of Madison and State Streets.

TABLE 2: DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				mg/L			CFU/100 mL
QD-21	Minimum	6.8	148	1,344	<1	272	333	0.20	728	<1
	Mean	7.3	179	1,356	<1	278	349	0.23	768	<1
	Maximum	8.0	207	1,380	<1	281	366	0.27	804	<1
	Std. Dev.	0.6	30	21	0.0	5	17	0.04	38	$NA^3$
	Median	7.0	183	1,344	<1	280	348	0.23	771	<1
	Coeff. of Var. (%)	8.3	17	2	0.0	2	5	15	5	NA
QD-22	Minimum	7.0	123	926	1	124	223	0.37	663	<1
	Mean	7.4	140	946	1	127	232	0.40	672	<1
	Maximum	7.9	158	964	1	132	244	0.42	677	<1
	Std. Dev.	0.5	18	19	0.1	4	11	0.03	8	NA
	Median	7.1	139	948	1	126	231	0.42	675	<1
	Coeff. of Var. (%)	6.8	13	2	9	3	5	7.2	1	NA
QD-23	Minimum	6.8	160	1,214	1	202	322	0.50	778	<1
	Mean	7.0	180	1,230	2	209	326	0.54	801	<1
	Maximum	7.2	192	1,258	2	215	330	0.56	816	<1
	Std. Dev.	0.2	18	24	0.2	7	4	0.03	20	NA
	Median	7.0	188	1,218	2	210	325	0.03	810	NA <1
	Coeff. of Var. (%)	2.4	10	2	13	3	1	6.4	3	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m			**********	··mg/L·····			CFU/100 mL
QD-24	Minimum	7.2	112	670	2	103	153	0.46	453	<1
	Mean	7.2	142	727	2	105	165	0.50	508	<1
	Maximum	7.4	164	788	2	109	181	0.53	557	<1
	Std. Dev.	0.1	27	59	0.3	3	14	0.04	52	NA
	Median	7.2	150	724	2	104	161	0.50	513	<1
	Coeff. of Var. (%)	1.6	19	8	17	3	9	7.1	10	NA
QD-25	Minimum	7.0	208	1,482	1	467	243	0.66	651	<1
	Mean	7.1	248	1,520	2	483	260	0.71	680	<1
	Maximum	7.2	268	1,586	2	503	283	0.74	712	<1
	Std. Dev.	0.1	34	57	0.3	18	20	0.05	31	NA
	Median	7.2	267	1,492	2	479	254	0.74	678	<1
	Coeff. of Var. (%)	1.8	14	4	18	4	8	6.5	. 4	NA
QD-26	Minimum	7.0	60	462	<1	10	83	0.30	391	<1
	Mean	7.3	76	480	1	11	94	0.35	408	<1
	Maximum	7.6	85	490	1	13	101	0.38	425	<1
	Std. Dev.	0.3	13	16	0.1	2	9	0.04	17	NA
	Median	7.4	82	488	1	11	97	0.36	409	<1
	Coeff. of Var. (%)	4.3	18	3	10	13	10	12	4	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				-mg/L			CFU/100 mL
QD-27	Minimum	6.8	165	1,184	15	343	26	29	456	<1
	Mean	7.2	202	1,216	16	359	36	30	470	3
	Maximum	7.5	254	1,244	17	377	49	31	500	71
	Std. Dev.	0.3	36	22	1	12	8	0.72	16	NA
	Median	7.3	198	1,217	16	359	35	30	467	1
	Coeff. of Var. (%)	3.9	18	2	5	3	23	2.4	3	NA
QD-28	Minimum	6.8	95	770	<1	143	149	0.65	489	<1
	Mean	7.0	110	852	1	152	159	0.75	503	<1
	Maximum	7.2	124	938	2	161	165	0.90	513	<1
	Std. Dev.	0.2	15	84	0.2	. 9	9	0.13	13	NA
	Median	7.1	112	848	1	153	163	0.70	508	<1
	Coeff. of Var. (%)	2.7	14	10	16	6	5	18	3	NA
QD-29	Minimum	6.8	134	1,062	1	157	260	0.40	687	<1
	Mean	6.8	154	1,115	2	162	272	0.45	721	<1
	Maximum	7.0	165	1,174	2	168	280	0.47	741	<1
	Std. Dev.	0.1	17	56	0.4	6	10	0.04	30	NA
	Median	6.8	161	1,108	2	160	275	0.47	736	<1
	Coeff. of Var. (%)	2.1	11	5	21	4	4	9.0	4	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				mg/L·····			CFU/100 mL
QD-30	Minimum	6.9	106	964	<1	127	275	0.32	584	<1
	Mean	7.1	125	1,050	1	142	300	0.33	648	<1
	Maximum	7.3	145	1,150	- 1	155	320	0.34	700	<1
	Std. Dev.	0.2	19	94	0.0	14	23	0.01	59	NA
	Median	7.1	124	1,036	1	143	306	0.33	660	<1
	Coeff. of Var. (%)	2.6	15	9	0.0	10	8	3.0	9	NA
QD-31	Minimum	7.4	110	860	<1	116	175	0.19	250	1
	Mean	7.5	130	887	<1	117	183	0.21	258	5
	Maximum	7.5	143	908	<1	118	195	0.23	265	31
	Std. Dev.	0.1	18	24	0.0	1	11	0.02	8	NA
	Median	7.5	138	892	<1	116	179	0.21	260	<1
	Coeff. of Var. (%)	1.2	14	3	0.0	1	6	9.5	3	NA
QD-32	Minimum	7.9	243	1,860	<1	530	226	< 0.10	23	<1
	Mean	8.7	293	1,935	<1	542	231	0.25	31	<1
	Maximum	9.3	322	2,000	<1	549	240	0.27	37	<1
	Std. Dev.	0.7	44	71	0.0	10	8	0.04	7	NA
	Median	8.9	314	1,946	<1	547	227	0.25	34	<1
	Coeff. of Var. (%)	8	15	4	0.0	2	3	14	24	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC <sup>1</sup>	Cl	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				mg/L·····	****		CFU/100 mL
QD-33	Minimum	7.2	173	1,532	<1	182	195	0.10	23	<1
	Mean	8.1	226	1,579	<1	323	217	0.33	26	1
	Maximum	8.9	272	1,616	<1	363	245	0.95	28	4
	Std. Dev.	0.6	42	36	0.0	70	22	0.31	2	NA
	Median	8.1	230	1,585	<1	346	215	0.25	26	1
	Coeff. of Var. (%)	7	18	2	0.0	22	10	94	7	NA
QD-34	Minimum	6.5	104	984	1	128	242	0.39	650	<1
	Mean	6.9	138	1,044	2	139	263	0.44	682	2
	Maximum	7.2	157	1,186	2	156	274	0.49	699	9
	Std. Dev.	7.2	23	76	0.3	10	12	0.03	18	NA
	Median	7.2	149	1,021	2	136	267	0.43	684	1
	Coeff. of Var. (%)	7.1	17	7	15	7	4	7.4	3	NA
QD-35	Minimum	6.8	113	984	1	89	231	0.35	639	<1
	Mean	7.5	131	999	2	124	242	0.74	648	<1
	Maximum	8.6	145	1,012	2	149	249	1.5	654	<1
	Std. Dev.	1.0	17	14	0.3	31	10	0.66	8	NA
	Median	7.1	136	1,002	2	134	246	0.36	650	<1
	Coeff. of Var. (%)	13.0	13	1	18	25	4	90	1	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				mg/L			CFU/100 mL
QD-36	Minimum	6.4	121	1,120	1	114	302	0.32	766	<1
	Mean	7.1	148	1,167	2	122	324	0.34	786	<1
	Maximum	8.0	165	1,202	2	128	338	0.37	797	<1
	Std. Dev.	0.8	23	42	0.5	7	20	0.03	17	NA
	Median	7.0	157	1,178	1	124	333	0.34	795	<1
	Coeff. of Var. (%)	11.4	16	4	30	6	6	7.3	2	NA
QD-37	Minimum	7.0	162	1,368	<1	251	356	0.14	439	<1
	Mean	7.4	196	1,381	<1	267	375	0.20	478	<1
	Maximum	8.0	231	1,396	<1	283	390	0.26	526	<1
	Std. Dev.	0.3	31	10	0.0	13	12	0.04	32	NA
	Median	7.4	193	1,382	<1	265	375	0.20	473	<1
	Coeff. of Var. (%)	4	16	1	0.0	5	3	20	7	NA
QD-38	Minimum	7.6	96	752	<1	166	99	0.33	259	<1
	Mean	7.9	112	787	<1	169	104	0.36	267	<1
	Maximum	8.2	124	812	<1	174	109	0.37	272	<1
	Std. Dev.	0.3	15	31	0.0	5	5	0.02	7	NA
	Median	7.8	116	798	<1	166	104	0.37	270	<1
	Coeff. of Var. (%)	4.2	13	4	0.0	3	5	6.5	3	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC1	$TDS^1$	TOC1	Cl	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m	****	***************************************		-mg/L			CFU/100 mL
QD-39	Minimum	8.0	95	770	<1	26	97	< 0.10	19	<1
	Mean	8.1	113	779	<1	27	101	0.10	21	<1
	Maximum	8.2	126	790	<1	28	106	0.11	23	<1
	Std. Dev.	0.1	16	10	0.0	- 1	4	0.01	2	NA
	Median	8.2	117	778	<1	26	99	0.10	20	<1
	Coeff. of Var. (%)	1.3	14	1	0.0	4	4	6.0	10	NA
QD-40	Minimum	9.0	110	716	<1	14	378	< 0.10	14	1
	Mean	9.1	116	739	1	14	385	0.13	20	<1
	Maximum	9.2	122	750	1	15	394	0.15	27	<1
	Std. Dev.	0.1	6	20	0.1	1	9	0.03	7	NA
	Median	9.1	115	750	1	14	382	0.13	19	<1
	Coeff. of Var. (%)	1.4	5	3	11	4	2	22	33	NA
QD-41	Minimum	7.3	77	708	1	15	337	0.25	387	<1
	Mean	7.8	96	717	2	16	352	0.30	410	<1
	Maximum	8.6	109	724	2	17	369	0.33	431	<1
	Std. Dev.	0.7	17	8	0.3	1	16	0.05	22	NA
	Median	7.5	102	718	1	16	351	0.33	413	<1
	Coeff. of Var. (%)	8.9	17	1	18	6	5	15	5	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	$TDS^1$	TOC1	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m	*****			mg/L····			CFU/100 mL
QD-42	Minimum	7.2	76	676	1	19	278	0.25	376	<1
	Mean	7.4	97	701	1	20	291	0.28	383	<1
	Maximum	7.6	112	720	1	21	302	0.30	388	<1
	Std. Dev.	0.2	19	22	0.2	1	12	0.03	6	NA
	Median	7.4	103	706	1	19	293	0.29	385	<1
	Coeff. of Var. (%)	2.6	19	3	14	6	4	9.4	2	NA
QD-43	Minimum	7.1	104	656	<1	46	220	0.32	435	<1
	Mean	7.1	107	673	1	47	231	0.33	454	<1
	Maximum	7.2	112	686	1	49	245	0.34	470	<1
	Std. Dev.	0.1	4	15	0.2	2	13	0.01	18	NA
	Median	7.1	106	676	1	47	229	0.33	456	<1
	Coeff. of Var. (%)	0.9	4	2	18	3	5	3.0	4	NA
QD-44	Minimum	7.7	55	532	<1	18	198	0.34	317	<1
	Mean	7.8	76	557	1	20	213	0.35	320	<1
	Maximum	7.8	88	572	1	23	225	0.36	326	<1
	Std. Dev.	0.1	19	22	0.0	3	14	0.01	5	NA
	Median	7.7	86	566	1	18	216	0.35	318	<1
	Coeff. of Var. (%)	0.9	25	4	0.0	15	6	2.9	2	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	$TDS^1$	TOC1	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				-mg/L			CFU/100 mL
QD-45	Minimum	8.9	54	478	1	17	211	0.31	93	<1
	Mean	9.0	72	520	1	17	218	0.32	99	<1
	Maximum	9.2	83	546	1	18	225	0.33	104	<1
	Std. Dev.	0.1	16	37	0.1	1	7	0.01	6	NA
	Median	9.0	79	536	1	17	216	0.32	101	<1
	Coeff. of Var. (%)	1.4	22	7	5	3	3	3.1	6	NA
QD-46	Minimum	7.8	68	552	<1	11	100	0.20	64	<1
	Mean	7.8	83	593	1	13	105	0.22	66	2
	Maximum	7.9	92	656	2	14	113	0.23	68	15
	Std. Dev.	0.0	13	55	0.4	2	7	0.02	2	NA
	Median	7.8	88	572	2	13	103	0.23	66	1
	Coeff. of Var. (%)	0.4	16	9	27	12	7	7.9	3	NA
QD-47	Minimum	7.4	56	432	<1	13	150	0.29	241	<1
	Mean	7.7	64	473	1	15	152	0.38	241	<1
	Maximum	8.0	78	508	1	16	153	0.55	242	1
	Std. Dev.	0.3	12	38	0.0	2	2	0.15	1	NA
	Median	7.8	59	478	1	15	152	0.29	241	<1
	Coeff. of Var. (%)	4.0	19	8	0.0	10	1	40	0	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m		*******		-mg/L			CFU/100 mL
QD-48	Minimum	7.6	60	514	1	<10	277	0.11	257	<1
	Mean	8.3	67	539	1	<10	293	0.18	302	1
	Maximum	8.7	80	568	1	<10	304	0.31	356	11
	Std. Dev.	0.6	11	27	0.2	0	14	0.11	50	NA
	Median	8.6	63	536	prompt	<10	298	0.12	292	1
	Coeff. of Var. (%)	7.3	16	5	14	0	5	63	17	NA
QD-49	Minimum	7.7	73	562	1	13	159	0.19	299	<1
	Mean	8.0	76	577	1	14	179	0.31	328	9
	Maximum	8.2	79	592	1	15	199	0.42	357	83
	Std. Dev.	0.4	4	21	0.1	1	28	0.16	41	NA
	Median	8.0	76	577	1	14	179	0.31	328	42
	Coeff. of Var. (%)	4.7	5	4	7	10	16	53	13	NA
QD-50	Minimum	9.2	85	668	1	11	281	0.11	6	<1
	Mean	9.4	98	675	1	12	289	0.14	7	<1
	Maximum	9.7	106	686	1	12	299	0.20	8	<1
	Std. Dev.	0.3	11	9	0.2	1	9	0.05	1	NA
	Median	9.2	104	672	1	12	286	0.12	6	<1
	Coeff. of Var. (%)	3.4	11	1	17	5	3	34	17	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				-mg/L			CFU/100 mL
QD-51	Minimum	9.2	68	526	<1	12	127	< 0.10	5	<1
	Mean	9.3	81	535	1	12	127	< 0.10	9	<1
	Maximum	9.3	88	544	1	12	129	< 0.10	16	<1
	Std. Dev.	0.1	11	9	0.1	0	1	0.0	6	NA
	Median	9.2	88	534	1	12	127	< 0.10	6	<1
	Coeff. of Var. (%)	0.8	14	2	8	0	1	0.0	68	NA
QD-52	Minimum	8.7	39	482	1	14	140	< 0.10	19	<1
	Mean	8.9	60	487	1	15	150	0.12	20	<1
	Maximum	9.2	79	492	1	15	155	0.12	21	<1
	Std. Dev.	0.3	20	5	0.1	1	8	0.01	1	NA
	Median	8.8	63	488	1	15	154	0.12	20	<1
	Coeff. of Var. (%)	2.9	33	1	13	4	6	10	5	NA
QD-53	Minimum	8.1	46	570	1	17	169	< 0.10	9	<1
	Mean	8.7	72	577	1	18	173	< 0.10	10	1
	Maximum	9.1	93	586	1	18	177	< 0.10	12	2
	Std. Dev.	0.5	24	8	0.2	1	4	0.0	2	NA
	Median	8.9	77	576	1	18	173	< 0.10	10	1
	Coeff. of Var. (%)	5.8	33	1	12	3	2	0.0	15	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2</sup> -	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				-mg/L			CFU/100 mL
QD-54	Minimum	8.7	55	430	<1	16	144	0.18	37	<1
	Mean	8.9	67	439	<1	16	149	0.21	43	<1
	Maximum	9.0	73	450	<1	16	153	0.23	49	<1
	Std. Dev.	0.1	10	10	0.0	0	5	0.03	6	NA
	Median	8.9	72	436	<1	16	149	0.22	42	<1
	Coeff. of Var. (%)	1.5	15	2	0.0	0	3	13	14	NA
QD-55	Minimum	8.3	58	420	<1	15	186	0.33	132	<1
	Mean	8.5	70	453	1	15	190	0.33	160	<1
	Maximum	8.8	78	472	2	16	193	0.34	174	<1
	Std. Dev.	0.3	11	28	0.2	1	3	0.01	24	NA
	Median	8.4	76	466	1	15	190	0.33	173	<1
	Coeff. of Var. (%)	3.3	16	6	16	4	2	1.7	15	NA
QD-56	Minimum	7.8	26	294	<1	10	12	0.22	53	<1
	Mean	8.2	40	307	<1	10	13	0.24	56	<1
	Maximum	8.4	54	316	<1	10	14	0.26	58	<1
	Std. Dev.	0.3	14	11	0.0	0	1	0.02	3	NA
	Median	8.3	40	310	<1	10	12	0.25	56	<1
	Coeff. of Var. (%)	4.1	35	4	0.0	0	8	8.6	5	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl	SO <sub>4</sub> <sup>2-</sup>	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				mg/L			CFU/100 mL
QD-57	Minimum	8.5	30	368	<1	12	52	0.22	19	
	Mean	8.8	44	374	<1	12	55	0.24	20	<1
	Maximum	9.0	60	386	<1	12	58	0.24	22	<1
	Std. Dev.	0.3	15	10	0.0	0	3	0.20	2	<1 NA
	Median	8.8	43	368	<1	12	54	0.02	19	NA <1
	Coeff. of Var. (%)	3.0	33	3	0.0	0	5	8.3	9	NA
QD-58	Minimum	8.0	33	254	<1	10	<5	0.28	117	~1
	Mean	8.1	42	263	<1	10	5	0.28	122	<1 <1
	Maximum	8.5	46	276	<1	11	5	0.33	130	<1
	Std. Dev.	0.3	7	11	0.0	1	0.2	0.03	7	NA
	Median	8.0	46	260	<1	10	5	0.32	120	<1
	Coeff. of Var. (%)	4.1	17	4	0.0	6	4	8.5	6	NA
QD-59	Minimum	7.6	28	390	<1	84	32	0.30	240	<1
	Mean	8.0	58	418	1	86	33	0.33	253	<1
	Maximum	8.8	74	462	1	87	33	0.35	261	<1
	Std. Dev.	0.6	26	39	0.1	2	1	0.03	12	NA
	Median	7.8	73	402	1	86	33	0.35	259	NA <1
	Coeff. of Var. (%)	8.0	45	9	10	2	2	8.7	5	NA

TABLE 2 (Continued): DESCRIPTIVE STATISTICS FOR GROUNDWATER DATA OF MONITORING WELLS QD-21 THROUGH QD-60 IN THE DES PLAINES TUNNEL SYSTEM OF THE TUNNEL AND RESERVOIR PLAN DURING 2015

Well	Statistic	рН	EC <sup>1</sup>	TDS <sup>1</sup>	TOC1	Cl <sup>-</sup>	$SO_4^{2-}$	NH <sub>3</sub> -N	Hardness	Fecal Coliform <sup>2</sup>
			mS/m				mg/L			CFU/100 mL
QD-60	Minimum	7.6	50	396	<1	42	95	0.35	256	<1
	Mean	7.9	62	409	<1	43	101	0.38	260	<1
	Maximum	8.3	68	432	<1	44	105	0.39	264	<1
	Std. Dev.	0.4	11	20	0.0	1	5	0.02	4	NA
	Median	7.8	68	398	<1	42	101	0.39	260	<1
	Coeff. of Var. (%)	4.5	17	5	0.0	3	5	6.1	2	NA

EC = electrical conductivity; TDS = total dissolved solids; TOC = total dissolved organic carbon.

<sup>&</sup>lt;sup>2</sup>Geometric mean calculated. <sup>3</sup>Not applicable.