



ANEJO 1

REGION	PWSID	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	CODIGO VIOL.	PERIODO EMPIEZA	PERIODO TERMINA	MUESTRAS TOMADAS	MUESTRAS REQUERIDAS	RESULTADO mg/L	PUNTOS O CANTIDAD DE MUESTRAS EN EXCEDENCIA	ACCION ENFORCEMENT	FECHA
OESTE	3333	SABANA GRANDE	THM	2950	MCL	02	01 ENERO 2025	31 MARZO 2025			0.087	2	SFQ-ATE	23 OCTUBRE 2024
OESTE	3373	CABO ROJO	THM	2950	MCL	02	01 ENERO 2025	31 MARZO 2025			0.088	1	SFQ-ATE	25 ABRIL 2025
ESTE	4635	CAYEY URBANO	THM	2950	MCL	02	01 ENERO 2025	31 MARZO 2025			0.100	3	SFQ-ATE	29 ENERO 2025
SUR	4664	TOA VACA	THM	2950	MCL	02	01 ENERO 2025	31 MARZO 2025			0.088	2	SFQ-ATE	29 ENERO 2025
ESTE	5386	RIO BLANCO	THM	2950	MCL	02	01 ENERO 2025	31 MARZO 2025			0.086	2	SFQ-ATE	5 AGOSTO 2024
OESTE	3333	SABANA GRANDE	THM	2950	MCL	02	01 ABRIL 2025	30 JUNIO 2025			0.084	1	SFQ-ATE	23 OCTUBRE 2024
OESTE	4635	CABO ROJO	THM	2950	MCL	02	01 ABRIL 2025	30 JUNIO 2025			0.082	2	SFQ-ATE	15 JULIO 2025
ESTE	4635	CAYEY URBANO	THM	2950	MCL	02	01 ABRIL 2025	30 JUNIO 2025			0.091	1	SFQ-ATE	29 ENERO 2025
OESTE	3373	CABO ROJO	THM	2950	MCL	02	01 JULIO 2025	30 SEPTIEMBRE 2025			0.085	2	SFQ-ATE	5 AGOSTO 2024
METRO	2591	METRO	THM	2950	MCL	02	01 OCTUBRE 2025	31 DICIEMBRE 2025			0.091	2	SFQ-ATE	15 JULIO 2025
OESTE	3373	CABO ROJO	THM	2950	MCL	02	01 OCTUBRE 2025	31 DICIEMBRE 2025			0.084	1	SFQ-ATE	30 ENERO 2026
OESTE	2712	JAYUYA URBANO	HAA5	2456	MCL	02	01 ENERO 2025	31 MARZO 2025			0.091	2	SFQ-ATE	15 JULIO 2025
NORTE	2862	COTO SUR	HAA5	2456	MCL	02	01 ENERO 2025	31 MARZO 2025			0.063	1	SFQ-ATE	25 ABRIL 2025
NORTE	3262	MANATI EAST	HAA5	2456	MCL	02	01 ENERO 2025	31 MARZO 2025			0.062	1	SFQ-ATE	29 ENERO 2025
NORTE	3262	MANATI EAST	HAA5	2456	MCL	02	01 ABRIL 2025	30 JUNIO 2025			0.064	1	SFQ-ATE	25 ABRIL 2025
SUR	4234	DUEY	HAA5	2456	MCL	02	01 ABRIL 2025	30 JUNIO 2025			0.072	1	SFQ-ATE	15 JULIO 2025
NORTE	2712	JAYUYA URBANO	HAA5	2456	MCL	02	01 JULIO 2025	30 SEPTIEMBRE 2025			0.067	2	SFQ-ATE	25 ABRIL 2025
NORTE	3262	MANATI EAST	HAA5	2456	MCL	02	01 JULIO 2025	30 SEPTIEMBRE 2025			0.071	1	SFQ-ATE	25 ABRIL 2025
SUR	4234	DUEY	HAA5	2456	MCL	02	01 JULIO 2025	30 SEPTIEMBRE 2025			0.072	1	SFQ-ATE	15 JULIO 2025
NORTE	2712	JAYUYA URBANO	HAA5	2456	MCL	02	01 OCTUBRE 2025	31 DICIEMBRE 2025			0.063	1	SFQ-ATE	25 ABRIL 2025
NORTE	3262	MANATI EAST	HAA5	2456	MCL	02	01 OCTUBRE 2025	31 DICIEMBRE 2025			0.071	1	SFQ-ATE	25 ABRIL 2025
SUR	4234	DUEY	HAA5	2456	MCL	02	01 OCTUBRE 2025	31 DICIEMBRE 2025			0.062	1	SFQ-ATE	15 JULIO 2025
REGION	PWSID	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	CODIGO VIOL.	PERIODO EMPIEZA	PERIODO TERMINA	MUESTRAS TOMADAS	MUESTRAS REQUERIDAS	RESULTADO	CANTIDAD DE MUESTRAS EN EXCEDENCIA	ACCION ENFORCEMENT	FECHA
NORTE	2762	PF MOROVIS SUR	COLORO	0200	MR	36	01 ENERO 2025	31 ENERO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 057-25	17 MARZO 2025
ESTE	5066	PF CAGUAS SUR	COLORO	0200	MR	36	01 MARZO 2025	31 MARZO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 088-25	30 MAYO 2025
ESTE	5046	PF MINILLAS	COLORO	0200	MR	36	01 MARZO 2025	31 MARZO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 088-25	30 MAYO 2025
ESTE	5106	PF SAN LORENZO	COLORO	0200	MR	36	01 MARZO 2025	31 MARZO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 088-25	30 MAYO 2025
ESTE	5066	PF CAGUAS SUR	COLORO	0200	MR	36	01 ABRIL 2025	30 ABRIL 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 089-25	24 JUNIO 2025
ESTE	5096	PF GURABO	COLORO	0200	MR	36	01 ABRIL 2025	30 ABRIL 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 089-25	24 JUNIO 2025
ESTE	5557	PF BO. NUEVO	COLORO	0200	MR	36	01 MAYO 2025	31 MAYO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 097-25	17 JULIO 2025
ESTE	5316	PF LUQUILLO	COLORO	0200	MR	36	01 MAYO 2025	31 MAYO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 097-25	17 JULIO 2025
ESTE	4955	PF AIBONITO	COLORO	0200	MR	36	01 JUNIO 2025	30 JUNIO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 102-25	15 AGOSTO 2025
ESTE	5306	PF FAJARDO	COLORO	0200	MR	36	01 AGOSTO 2025	31 AGOSTO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI-NOV 102-25	15 AGOSTO 2025
METRO	2591	PF GUAYNABO	COLORO	0200	MR	36	01 AGOSTO 2025	31 AGOSTO 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI NOV 006-26	3 NOVIEMBRE 2025
ESTE	5066	PF CAGUAS SUR	COLORO	0200	MR	36	01 SEPTIEMBRE 2025	30 SEPTIEMBRE 2025	Falla muestreo de cloro		N/A	N/A	SFI NOV 006-26	3 NOVIEMBRE 2025
ESTE	5066	PF CAGUAS SUR	COLORO	0200	MR	36	01 SEPTIEMBRE 2025	30 SEPTIEMBRE 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI NOV 037-26	18 FEBRERO 2026
OESTE	3772	GUAYATACA	COLORO	0200	MR	36	01 NOVIEMBRE 2025	30 NOVIEMBRE 2025	Falla equipo de cloro > 5 dias		N/A	N/A	SFI NOV 039-26	24 FEBRERO 2026
OESTE	3293	PF CULEBRINAS	TURBIDEZ	0300	MR	36	01 JUNIO 2025	30 JUNIO 2025	Falla muestreo de cloro		N/A	N/A	SFI NOV 0050-26	13 DE MAYO 2026
OESTE	3293	PF CULEBRINAS	TURBIDEZ	0300	MR	36	01 JUNIO 2025	30 JUNIO 2025	Falla muestreo turbidez		N/A	N/A	SFI-NOV 102-25	15 AGOSTO 2025
REGION	PWSID	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	CODIGO VIOL.	PERIODO EMPIEZA	PERIODO TERMINA	MUESTRAS TOMADAS	MUESTRAS REQUERIDAS	RESULTADO	CANTIDAD DE MUESTRAS EN EXCEDENCIA	ACCION ENFORCEMENT	FECHA
METRO	2591	PF ENRIQUE ORTEGA	TURBIDEZ	0300	TT	44	01 MAYO 2025	31 MAYO 2025			87.37%	1	SFI-NOV 097-25	17 JULIO 2025
SUR	4524	PF COTO LAUREL	TURBIDEZ	0300	TT	44	01 OCTUBRE 2025	31 OCTUBRE 2025			90.27%	1	SFI-NOV 038-26	19 FEBRERO 2026
METRO	2591	PF GUAYNABO	TURBIDEZ	0300	TT	43	01 MARZO 2025	31 MARZO 2025			> 1.49	1	SFI-NOV 088-25	30 MAYO 2025
METRO	2591	PF GUAYNABO	TURBIDEZ	0300	TT	43	01 MAYO 2025	31 MAYO 2025			> 1.49	12	SFI-NOV 097-25	17 JULIO 2025
METRO	2591	PF SERGIO CUEVAS	TURBIDEZ	0300	TT	43	01 MAYO 2025	31 MAYO 2025			> 1.49	4	SFI-NOV 087-25	17 JULIO 2025
ESTE	5296	PF EL YUNQUE	TURBIDEZ	0300	TT	43	01 MAYO 2025	31 MAYO 2025			> 1.49	2	SFI-NOV 097-25	17 JULIO 2025
SUR	4524	PF COTO LAUREL	TURBIDEZ	0300	TT	43	01 OCTUBRE 2025	31 OCTUBRE 2025			> 1.49	15	SFI-NOV 038-26	19 FEBRERO 2026
ESTE	5296	PF EL YUNQUE	TURBIDEZ	0300	TT	43	01 OCTUBRE 2025	31 OCTUBRE 2025			> 1.49	8	SFI-NOV 038-26	19 FEBRERO 2026

REGION	PWSID	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	CODIGO VIOL.	PERIODO EMPIEZA	PERIODO TERMINA	MUESTRAS TOMADAS	MUESTRAS REQUERIDAS	RESULTADO mg/L	PUNTOS O CANTIDAD DE MUESTRAS EN EXCEDENCIA	ACCION ENFORCEMENT	FECHA
ESTE	4845	POZO HOTEL	SOC (29)	VARIOS (29)	MR	03	01 ENERO 2025	31 MARZO 2025	0	29			SFJ-NOV 074-25	30 ABRIL 2025
NORTE	2772	POZO VEGA BAJA 2	GWR	3014	MR	34	01 FEBRERO 2025	28 FEBRERO 2025	0	1			SFJ-NOV 056-25	13 MARZO 2025
SUR	4915	POZO SAN FELIPE	GWR	3014	MR	34	01 SEPTIEMBRE 2025	30 SEPTIEMBRE 2025	0	1			SFJ-NOV 008-26	12 NOVIEMBRE 2025
SUR	4915	POZO TENIDOR	GWR	3014	MR	34	01 SEPTIEMBRE 2025	30 SEPTIEMBRE 2025	0	1			SFJ-NOV 008-26	12 NOVIEMBRE 2025
SUR	4915	POZO COQUIJ 3	GWR	3014	MR	34	01 SEPTIEMBRE 2025	30 SEPTIEMBRE 2025	0	1			SFJ-NOV 008-26	12 NOVIEMBRE 2025
REGION	PWSID	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	CODIGO VIOL.	PERIODO EMPIEZA	PERIODO TERMINA	MUESTRAS TOMADAS	MUESTRAS REQUERIDAS	RESULTADO	CANTIDAD DE MUESTRAS EN EXCEDENCIA	ACCION ENFORCEMENT	FECHA
SUR	4234	RIO PRIETO	LT2	42	TT	0800	1/1/2025	1/31/2025					NOV 103-25	8/26/2024
ESTE	5316	LUQUILLO URB.	LT2	42	TT	0800	1/1/2025	1/31/2025					NOV 103-25	8/26/2024
NORTE	2792	ESPERANZA	LT2	42	TT	0800	2/1/2025	2/28/2025					NOV 103-25	8/26/2024



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PWS	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	PERIODO EMPIEZA	PERIODO TERMINA	MUESTRAS TOMADAS	MUESTRAS REQUERIDAS	ACCION ENFORCEMENT	FECHA	RESULTADO mg/L
439054	Testimonio Mundial de la Gracia	Nitrato	1040	MR	1/1/2025	3/31/2025	0	1	NOV	9/19/2025	
165051	Vaqueria Tres Monjitas	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
439074	Garden Motel	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
439084	Motel El Eden	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
401404	Hacienda La Balear	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
636046	Colegio San Antonio Abad	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/26	
458214	Ponce Darlington	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/26	
458394	Hotel Nuevo Méjico	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	2/26/26	
458374	Hotel Aloft	Nitrato	1040	MR	7/1/2025	9/30/2025	0	1	NOV	3/13/26	
530105	Hosp. Menonita de Guayama	Nitrato	1040	MR	10/1/2025	12/31/2025	0	1	NOV	3/13/26	
468064	Motel Las Vegas	Nitrato	1040	MR	1/1/2025	3/31/2025	0	1	NOV	9/19/2025	
165051	Vaqueria Tres Monjitas	Nitrato	1041	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
401404	Hacienda La Balear	Nitrato	1041	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
458394	Hotel Nuevo Méjico	Nitrato	1041	MR	7/1/2025	9/30/2025	0	1	NOV	2/26/26	
458374	Hotel Aloft	Nitrato	1041	MR	1/1/2025	12/31/2025	0	1	NOV	3/13/26	
401404	Hacienda La Balear	Inorgánicos	Todos	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/2026	
458374	Hotel Aloft	Inorgánicos	Todos	MR	1/1/2025	12/31/2025	0	1	NOV	3/13/26	
613396	Neolpharma	TTHM	2950	MR	4/1/2025	6/30/2025	0	2	NOV	9/19/2025	
640036	Medtronic PR	TTHM	2950	MR	7/1/2025	9/30/2025	0	2	NOV	1/26/2026	
401404	Hacienda La Balear	TTHM	2950	MR	7/1/2025	9/30/2025	0	2	NOV	1/26/2026	
636046	Colegio San Antonio Abad	TTHM	2950	MR	7/1/2025	9/30/2025	0	2	NOV	1/26/2026	
613556	Hospital Menonita de Caguas	TTHM	2950	MR	4/1/2025	6/30/2025	1	2	NOV	2/23/26	
613556	Hospital Menonita de Caguas	TTHM	2950	MR	7/1/2025	9/30/2025	1	2	NOV	2/23/26	
458374	Hotel Aloft	TTHM	2950	MR	7/1/2025	9/30/2025	0	2	NOV	3/13/26	
530105	Hosp. Menonita de Guayama	TTHM	2950	MR	10/1/2025	12/31/2025	0	2	NOV	3/13/26	
613396	Neolpharma	HAA5	2456	MR	4/1/2025	6/30/2025	0	2	NOV	9/19/2025	
640036	Medtronic PR	HAA5	2456	MR	7/1/2025	9/30/2025	0	2	NOV	1/26/2026	
401404	Hacienda La Balear	HAA5	2456	MR	7/1/2025	9/30/2025	0	2	NOV	1/26/2026	
636046	Colegio San Antonio Abad	HAA5	2456	MR	7/1/2025	9/30/2025	0	2	NOV	1/26/2026	
613556	Hospital Menonita de Caguas	HAA5	2456	MR	4/1/2025	6/30/2025	1	2	NOV	2/23/26	
613556	Hospital Menonita de Caguas	HAA5	2456	MR	7/1/2025	9/30/2025	1	2	NOV	2/23/26	
458374	Hotel Aloft	HAA5	2456	MR	7/1/2025	9/30/2025	0	2	NOV	3/13/26	
530105	Hosp. Menonita de Guayama	HAA5	2456	MR	10/1/2025	12/31/2025	0	2	NOV	3/13/26	
644096	McNeil	HAA5	2456	MCL	1/1/2025	3/30/2025	0	2	NOV-MCL	9/19/25	0.069
644096	McNeil	HAA5	2456	MCL	4/1/2025	6/30/2025	0	2	NOV-MCL	9/19/25	0.074
644096	McNeil	HAA5	2456	MCL	7/1/2025	9/30/2025	0	2	NOV-MCL	1/26/26	0.062
613396	Neolpharma	HAA5	2456	MCL	1/1/2025	3/31/2025	0	2	NOV-MCL	9/19/25	0.091
613396	Neolpharma	HAA5	2456	MCL	7/1/2025	9/30/2026	0	2	NOV-MCL	5/14/26	0.115
636046	Colegio San Antonio Abad	VOC	Todos	MR	7/1/2025	9/30/2025	0	1	NOV	1/26/26	
458374	Hotel Aloft	VOC	Todos	MR	1/1/2025	12/31/2025	0	1	NOV	3/13/26	
530105	Hosp. Menonita de Guayama	VOC	Todos	MR	10/1/2025	12/31/2025	0	1	NOV	3/13/26	
458374	Hotel Aloft	SOC	Todos	MR	1/1/2025	12/31/2025	0	1	NOV	3/13/26	
530105	Hosp. Menonita de Guayama	SOC	Todos	MR	10/1/2025	12/31/2025	0	1	NOV	3/13/26	

PWS	SISTEMA/COMPONENTE	CONTAMINANTE	CODIGO CONTAM.	TIPO VIOLACION	CODIGO VIOLACION	PERIODO EMPIEZA	PERIODO TERMINA	ACCION ENFORCEMENT	FECHA
518145	Brisas del Torito 1, Inc.	Bacteriología	800	MCL	1A	5/1/2025	5/31/2025	NOV	10/25/2025
242122	Comunidad Las Cuarenta	Bacteriología	800	MCL	1A	11/1/2025	11/30/2025	NOV	1/26/2026
556025	Bo. Real	Bacteriología	800	TT	2A	5/1/2026	5/31/2025	NOV	10/24/2025
556025	Bo. Real	Bacteriología	800	TT	2A	7/1/2025	7/31/2025	NOV	10/24/2025
653026	Rancho Grande	Bacteriología	800	TT	2A	8/1/2025	8/31/2025	NOV	10/24/2025
364013	Periche	Bacteriología	800	TT	2A	8/1/2025	8/31/2025	NOV	10/23/2025
604076	Acued. Madriguera	Bacteriología	800	TT	2A	1/1/2025	1/31/2025	NOV	7/21/2025
556025	Bo. Real	Bacteriología	800	NP	75	5/1/2025	5/31/2025	NOV	10/24/2025
556025	Bo. Real	Bacteriología	800	NP	75	7/1/2025	7/31/2025	NOV	10/24/2025
653026	Rancho Grande	Bacteriología	800	NP	75	8/1/2025	8/31/2025	NOV	10/24/2025
364013	Periche	Bacteriología	800	NP	75	8/1/2025	8/31/2025	NOV	10/23/2025
518145	Brisas del Torito 1, Inc.	Bacteriología	800	NP	75	5/1/2025	5/31/2025	NOV	10/25/2025
242122	Comunidad Las Cuarenta	Bacteriología	800	NP	75	11/1/2025	11/30/2025	NOV	1/26/2026
604076	Acued. Madriguera	Bacteriología	800	NP	75	1/1/2025	1/31/2025	NOV	7/21/2025

	REGION	PWSID	NOMBRE DEL SISTEMA	PUEBLO	TIPO DE SISTEMA	TOTAL MR's
1	METRO	0115011	CUBUY-MARINES	CANÓVANAS	COMUNAL	12
2	METRO	0115031	FINCA LOS GARCIA	CANÓVANAS	COMUNAL	8
3	NORTE	0207042	ARROZAL-LOS MUERTOS	ARECIBO	COMUNAL	8
4	NORTE	0238002	ALTURAS PIZA	JAYUYA	COMUNAL	12
5	NORTE	0238022	SANTA ROSA	JAYUYA	COMUNAL	11
6	NORTE	0238072	COMUNIDAD SANTA BARBARA	JAYUYA	COMUNAL	12
7	NORTE	0238082	VEGUITAS GRIPIÑAS	JAYUYA	COMUNAL	12
8	NORTE	0238122	SANTA BARBARA II	JAYUYA	COMUNAL	12
9	NORTE	0242012	LUCAS LUGO	LARES	COMUNAL	12
10	NORTE	0242032	HACIENDA PLANELL	LARES	COMUNAL	12
11	NORTE	0242122	COM. LAS CUARENTA	LARES	COMUNAL	8
12	NORTE	0272012	VIVI ABAJO	UTUADO	COMUNAL	12
13	NORTE	0272032	FINCA WILLIAM LUGO	UTUADO	COMUNAL	12
14	NORTE	0272082	ACUED. LA GRAMA	UTUADO	COMUNAL	12
15	NORTE	0272102	HACIENDA RULLAN	UTUADO	COMUNAL	12
16	NORTE	0272142	COMUNIDAD CHORRERAS	UTUADO	COMUNAL	12
17	NORTE	0272252	SIST. RURAL GRAULAU	UTUADO	COMUNAL	12
18	NORTE	0272262	VEGUITA	UTUADO	COMUNAL	12
19	NORTE	0272272	SALTOS CAGUANA	UTUADO	COMUNAL	12
20	NORTE	0272282	FINCA CARBONELL	UTUADO	COMUNAL	12
21	NORTE	0272292	ACUEDUCTO LA ESTANCIA, INC.	UTUADO	COMUNAL	12
22	NORTE	0272312	ACUED. COMUNAL QUEBRADA FRIA	UTUADO	COMUNAL	12
23	OESTE	0302043	LA CEIBA	AGUADA	COMUNAL	12
24	OESTE	0302053	COM. AISLADA EN DESARROLLO	AGUADA	COMUNAL	12
25	OESTE	0306053	ACUED. RURAL BO. HATILLO AÑASCO	AÑASCO	COMUNAL	3
26	OESTE	0364063	COMUNIDAD MENDEZ	SAN GERMÁN	COMUNAL	12
27	OESTE	0367053	ACUEDUCTO RURAL GUADALUPE MARTI	SAN SEBASTIÁN	COMUNAL	12
28	OESTE	0377023	SECTOR LAGUNA	LAS MARÍAS	COMUNAL	12
29	OESTE	0401014	ADJUNTAS LAS CRUCES, INC	ADJUNTAS	COMUNAL	12
30	OESTE	0401034	PELLEJAS	ADJUNTAS	COMUNAL	12
31	OESTE	0401064	COMUNIDAD PALOMO	ADJUNTAS	COMUNAL	12
32	OESTE	0401284	JUAN GONZALEZ	ADJUNTAS	COMUNAL	4
33	OESTE	0401374	COM. GARZAS CENTRO AEROPUERTO	ADJUNTAS	COMUNAL	12
34	OESTE	0401384	ACUEDUCTO COMUNITARIO SOSTENIBLE, INC	ADJUNTAS	COMUNAL	12
35	OESTE	0401394	ASOC. DE RESIDENTES CAMINO PAGAN INC	ADJUNTAS	COMUNAL	12
36	SUR	0422074	LA CUESTA	COAMO	COMUNAL	8
37	SUR	0422104	JAGUEY	COAMO	COMUNAL	8
38	OESTE	0431014	PELCHAS	GUAYANILLA	COMUNAL	12
39	OESTE	0431044	QUEBRADA HONDA	GUAYANILLA	COMUNAL	12
40	SUR	0439024	GUARDIA NACIONAL DE PR, FORT ALLEN	JUANA DÍAZ	COMUNAL	3
41	SUR	0439034	GUARAGUAO	JUANA DÍAZ	COMUNAL	12
42	SUR	0439044	PORTILLO - MIRAMAR	JUANA DÍAZ	COMUNAL	12
43	SUR	0455014	ACUEDUCTO LA HACIENDA DAMIAN ABAJO, INC	OROCOVIS	COMUNAL	12
44	SUR	0455044	COM. CACAO - LA SAPIA	OROCOVIS	COMUNAL	12
45	SUR	0455054	BAUTA ABAJO, INC.	OROCOVIS	COMUNAL	3
46	SUR	0455114	COM. SABANA	OROCOVIS	COMUNAL	6
47	SUR	0455134	LOS MIRANDA PELLEJAS	OROCOVIS	COMUNAL	6
48	SUR	0455214	EL PERICO II	OROCOVIS	COMUNAL	12
49	SUR	0455294	COM. SALTOS CABRA	OROCOVIS	COMUNAL	12
50	SUR	0455344	COMUNIDAD INTEGRADA EL PUEBLITO INC.	OROCOVIS	COMUNAL	3
51	OESTE	0457024	EL MALTILLO	PEÑUELAS	COMUNAL	12
52	OESTE	0457044	CORPORACION PRO SALUD Y MEJORA	PEÑUELAS	COMUNAL	12
53	OESTE	0457054	PANDURA	PEÑUELAS	COMUNAL	12

	REGION	PWSID	NOMBRE DEL SISTEMA	PUEBLO	TIPO DE SISTEMA	TOTAL MR'S
54	OESTE	0457064	ACUEDUCTO COMUNAL SAN JOSE	PEÑUELAS	COMUNAL	12
55	OESTE	0457084	COROZAL	PEÑUELAS	COMUNAL	8
56	OESTE	0457094	COREA METRALLA	PEÑUELAS	COMUNAL	12
57	OESTE	0457164	COMITE DE RESIDENTES SECTOR BELLEZA	PEÑUELAS	COMUNAL	12
58	SUR	0458004	LAS MESAS	PONCE	COMUNAL	12
59	SUR	0458034	ACUED. COMUNAL SECT. SANTAS PASCUAS, INC	PONCE	COMUNAL	12
60	SUR	0458044	BO. MONTE LLANOS	PONCE	COMUNAL	12
61	SUR	0458174	SERVICIO DE AGUA	PONCE	COMUNAL	12
62	SUR	0458194	ANON CARMELITA	PONCE	COMUNAL	12
63	SUR	0458234	EL TESORO	PONCE	COMUNAL	12
64	SUR	0458284	ASOC. CIVICA PASTILLO TIBES	PONCE	COMUNAL	12
65	SUR	0458304	LA CARMELITA	PONCE	COMUNAL	12
66	SUR	0476054	LA JULITA	VILLALBA	COMUNAL	12
67	SUR	0476064	VILLA BLANCA	VILLALBA	COMUNAL	12
68	SUR	0476124	VACAS II	VILLALBA	COMUNAL	12
69	SUR	0476204	SIERRITA	VILLALBA	COMUNAL	12
70	SUR	0476234	ACEITUNA II	VILLALBA	COMUNAL	12
71	SUR	0476314	SIERRITA - CAONILLA	VILLALBA	COMUNAL	12
72	SUR	0476324	ACEITUNA III	VILLALBA	COMUNAL	12
73	SUR	0476334	COMUNIDAD EL FRIO	OROCOVIS	COMUNAL	12
74	OESTE	0478034	ACUEDUCTO LA MONTANA INC.	YAUCO	COMUNAL	12
75	OESTE	0478044	CERROTE	YAUCO	COMUNAL	6
76	OESTE	0478094	MOGOTE	YAUCO	COMUNAL	12
77	OESTE	0478114	ACUED. COM. BO. SIERRA ALTA SECT. CACAO	YAUCO	COMUNAL	12
78	ESTE	0518135	CORPORACION ACUEDUCTO ANDALUCIA DE CAYEY	CAYEY	COMUNAL	12
79	ESTE	0523025	PALOMAS II	COMERÍO	COMUNAL	12
80	ESTE	0523095	COMUNIDAD CEDRITO	COMERÍO	COMUNAL	9
81	ESTE	0523125	LA PRIETA CENTRO	COMERÍO	COMUNAL	12
82	SUR	0530045	LOS BARROS	GUAYAMA	COMUNAL	12
83	SUR	0549015	QUEBRADA ARENAS	MAUNABO	COMUNAL	12
84	SUR	0549085	TALANTE	MAUNABO	COMUNAL	12
85	SUR	0549095	SISTEMA DE AGUA MATUYAS BAJO	MAUNABO	COMUNAL	12
86	SUR	0549105	VILLODAS	MAUNABO	COMUNAL	12
87	SUR	0549115	SISTEMA CRUZ LEON	MAUNABO	COMUNAL	12
88	SUR	0556045	LOS BARROS MARIN	PATILLAS	COMUNAL	9
89	SUR	0556085	APEADERO	PATILLAS	COMUNAL	12
90	SUR	0556125	ACUEDUCTO MACHUCHAL	PATILLAS	COMUNAL	5
91	SUR	0556135	MULAS SECTOR SOFIA	PATILLAS	COMUNAL	12
92	SUR	0556145	MARIN SECTOR BETANCOURT	PATILLAS	COMUNAL	2
93	ESTE	0604096	LAS TORRES ANDINO	AGUAS BUENAS	COMUNAL	12
94	ESTE	0604176	ACUED. COM. SECTOR EL LLANO	AGUAS BUENAS	COMUNAL	9
95	ESTE	0613196	EL PARAISO ACUEDUCTO INCORPORADO	CAGUAS	COMUNAL	7
96	ESTE	0613256	POZO PIÑAS 2 INC	CAGUAS	COMUNAL	9
97	ESTE	0613466	ASOCIACION DE RESIDENTES VILLA VIGIA	CAGUAS	COMUNAL	12
98	ESTE	0613536	ACUED. DELGADO Y OTROS	CAGUAS	COMUNAL	12
99	ESTE	0627016	COMUNIDAD JUAN DIEGO	FAJARDO	COMUNAL	12
100	ESTE	0644076	LIJAS	LAS PIEDRAS	COMUNAL	12
101	ESTE	0653056	ACUED. DE LA COM. EL DUQUE	NAGUABO	COMUNAL	12
102	ESTE	0653066	ACUED. LOMAS DEL VIENTO - MAIZALES	NAGUABO	COMUNAL	12
103	ESTE	0661046	BARCELONA	RÍO GRANDE	COMUNAL	12
104	ESTE	0666026	MACANEA / ESPINO	SAN LORENZO	COMUNAL	12
105	ESTE	0666086	CORPORACION SECTOR CANTERA	SAN LORENZO	COMUNAL	12
106	ESTE	0666116	ACUED. COMUNIDAD 18	SAN LORENZO	COMUNAL	12

	REGION	PWSID	NOMBRE DEL SISTEMA	PUEBLO	TIPO DE SISTEMA	TOTAL MR's
107	ESTE	0666126	COMUNIDAD EDEM	SAN LORENZO	COMUNAL	12
108	ESTE	0677196	ACUED. RURAL SECT. EL VEINTE	YABUCOA	COMUNAL	12
109	NORTE	0724027	MANA I	COROZAL	COMUNAL	12
110	NORTE	0724077	COMUNIDAD PALMARITO CENTRO	COROZAL	COMUNAL	12
111	NORTE	0724097	MANA III	COROZAL	COMUNAL	12
112	NORTE	0724117	ACUEDUCTO COMUNAL ELADIO ANDREU INC.	COROZAL	COMUNAL	12
113	NORTE	0754067	ANONES CENTRO	NARANJITO	COMUNAL	8

	REGION	PWSID	NOMBRE DEL SISTEMA	PUEBLO	TIPO DE SISTEMA	TOTAL MR's
1	OESTE	0401404	HACIENDA LA BALEAR INC	ADJUNTAS	NON-TRANSIENT	12
2	SUR	0455354	SALUD INTEGRAL DE LA MONTAÑA INC	OROCOVIS	NON-TRANSIENT	2
3	SUR	0530105	HOSPITAL MENONITA DE GUAYAMA INC.	GUAYAMA	NON-TRANSIENT	3
4	SUR	0563095	CAMPAMENTO SANTIAGO	SALINAS	NON-TRANSIENT	3

	REGION	PWSID	NOMBRE DEL SISTEMA	PUEBLO	TIPO DE SISTEMA	TOTAL MR's
1	SUR	0439054	TESTIMONIO MUNDIAL LA GRACIA	JUANA DÍAZ	NON-COMUNAL, TRANSIENT	8
2	SUR	0439084	MOTEL EL EDEN	JUANA DÍAZ	NON-COMUNAL, TRANSIENT	4
3	SUR	0458394	HOTEL NUEVO MEJICO	PONCE	NON-COMUNAL, TRANSIENT	1
4	SUR	0468064	MOTEL LAS VEGAS	SANTA ISABEL	NON-COMUNAL, TRANSIENT	4

PWSID	PWS Name	Pop Srvd	PWS		Rule Name	Contaminant Code	Violation Code	Compl Per Begin Date	Compl Per End Date	Violation Type	Enforcement	
			Type	Code							Action	Date Issued
PR0165051	VAQUERIA TRES MONJITAS	250	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 011-26	17-Dec-25	
PR0165071	HATO REY PARTNERS, LLC	375	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 012-26	17-Dec-25	
PR0209132	PEPSICO CARIBBEAN (FRITO LAY)	111	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 013-26	17-Dec-25	
PR0401404	HACIENDA LA BALEAR, INC	34	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 014-26	17-Dec-25	
PR0458374	HOTEL ALOFT	200	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 015-26	17-Dec-25	
PR0563095	CAMPAMENTO SANTIAGO	500	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 016-26	17-Dec-25	
PR0618556	HOSPITAL MENONITA DE CAGUAS	2,050	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 017-26	17-Dec-25	
PR0677236	CIUDAD EDUCATIVA DR. ROQUE	440	NTNC	5000	Lead and Cooper Rule	52	1-Jan-25	30-Jun-25	Follow up or Routine LCR Tap M/R	NOV 018-26	17-Dec-25	
PR0431034	CENTRAL TERMoeLECTRICA	390	NTNC	5000	Lead and Cooper Rule	52	1-Jun-25	30-Sep-25	Follow up or Routine LCR Tap M/R	NOV 052-26	22-May-26	
PR0711057	BAYAMON MEDICAL CENTER	600	NTNC	5000	Lead and Cooper Rule	52	1-Jun-25	30-Sep-25	Follow up or Routine LCR Tap M/R	NOV 053-26	22-May-26	
PR0209132	PEPSICO CARIBBEAN (FRITO LAY)	111	NTNC	5000	Lead and Cooper Rule	52	1-Jul-25	31-Dec-25	Follow up or Routine LCR Tap M/R	NOV 054-26	22-May-26	
PR0401404	HACIENDA LA BALEAR, INC	34	NTNC	5000	Lead and Cooper Rule	52	1-Jul-25	31-Dec-25	Follow up or Routine LCR Tap M/R	NOV 055-26	22-May-26	
PR0677236	CIUDAD EDUCATIVA DR. ROQUE	440	NTNC	5000	Lead and Cooper Rule	52	1-Jul-25	31-Dec-25	Follow up or Routine LCR Tap M/R	NOV 056-26	22-May-26	
PR0165041	VA CARIBBEAN HEALTHCARE SYSTEM	3,000	NTNC	5000	Lead and Cooper Rule	52	1-Jun-25	30-Sep-25	Follow up or Routine LCR Tap M/R	NOV 062-26	22-May-26	
PR0364083	HOSPITAL DE LA CONCEPCION	900	NTNC	5000	Lead and Cooper Rule	52	1-Jun-25	30-Sep-25	Follow up or Routine LCR Tap M/R	NOV 063-26	22-May-26	
PR0640036	MEDTRONIC PUERTO RICO OPER. CO.	2,052	NTNC	5000	Lead and Cooper Rule	52	1-Jun-25	30-Sep-25	Follow up or Routine LCR Tap M/R	NOV 064-26	22-May-26	
PR0458374	HOTEL ALOFT	200	NTNC	5000	Lead and Cooper Rule	52	1-Jul-25	31-Dec-25	Follow up or Routine LCR Tap M/R	NOV 065-26	22-May-26	

PR0613396	NEOLPHARMA	200	NTNC	5000	Lead and Cooper Rule	57		16-Aug-25	Treatment Technique TT	NOV 020-26	28-Jan-26
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APÉNDICE

APÉNDICE A – TÉRMINOS Y DEFINICIONES PRINCIPALES

Informe Anual del Programa – Cada trimestre, las agencias con primacía envían datos al Sistema de Información sobre Agua Potable Segura (SDWIS/FED), una base de datos automatizada mantenida por la EPA. Los datos enviados incluyen, entre otros, información sobre el inventario de los sistemas, la incidencia de MCL, MRDL, monitoreo e informes, y violaciones de técnicas de tratamiento, así como información sobre la actividad de aplicación de la ley (*enforcement*) relacionada con estas violaciones.

La Sección 1414(c)(3) de la SDWA requiere que los estados proporcionen a la EPA un informe anual sobre las violaciones de los estándares primarios de agua potable. Este informe proporciona los números de violaciones en cada una de seis categorías: MCLs, MRDLs, técnicas de tratamiento, variaciones y exenciones, monitoreo e informes significativos, y notificación significativa al consumidor.

Sistema público de agua – significa un sistema que sirve agua al público para consumo humano a través de tuberías o, después del 5 de agosto de 1998, otros medios de transporte construidos, si dicho sistema tiene al menos quince (15) conexiones de servicio o sirve regularmente a un promedio de al menos veinticinco (25) personas diariamente al menos 60 días al año. Dicho término incluye: cualquier instalación de recolección, tratamiento, almacenamiento y distribución bajo el control del operador de dicho sistema y utilizada principalmente en relación con dicho sistema; y cualquier instalación de recolección o almacenamiento previo al tratamiento que no esté bajo dicho control y que se utilice principalmente en relación con dicho sistema. Un sistema público de agua es un "sistema de agua comunal" o un "sistema de agua no comunal".

- **Sistema de agua comunal** – significa un sistema público de agua que sirve al menos quince (15) conexiones de servicio utilizadas por residentes durante todo el año o sirve regularmente al menos a 25 residentes durante todo el año. Los sistemas se clasifican en:
 - Grandes – sirven a poblaciones de más de 50,000 personas.
 - Medianos – sirven a poblaciones entre 3,301 a 50,000 personas.
 - Pequeños – sirven a poblaciones de 3,300 personas o menos.
- **Sistema de agua no comunal** – significa un sistema público de agua que no es un sistema de agua comunal. Un sistema de agua no comunal es a su vez un "sistema de agua no comunal transitorio (TNC)" o un "sistema de agua no comunal no transitorio (NTNC)".
 - **Sistema de agua no comunal no transitorio o NTNC** – significa un sistema público de agua que no es un sistema de agua comunal y que sirve regularmente al menos a 25 de las mismas personas durante seis (6) meses al año.
 - **Sistema de agua transitorio no comunal o TNC** – significa un sistema de agua no comunal que no sirve regularmente al menos a 25 de las mismas personas durante seis (6) meses al año.

Monitoreo - se requiere a los sistemas públicos de agua muestrear y verificar que los niveles de contaminantes presentes en el agua no excedan el MCL. Si un sistema no analiza su agua como se requiere o no informa los resultados de los análisis correctamente al estado con primacía, se produce una violación de monitoreo o reporte (M/R).

Nivel máximo de contaminante - significa el nivel máximo permisible de un contaminante en el agua que se sirve a cualquier usuario de un sistema público de agua.

Nivel máximo de contaminante meta (MCLG) - significa el nivel máximo de un contaminante en el agua potable en el que no se produciría ningún efecto adverso conocido o anticipado en la salud de las personas, y que permite un margen adecuado de seguridad. Los objetivos de nivel máximo de contaminantes son objetivos de salud no requeridos (*non enforceable*).

Nivel máximo de residual de desinfectante (MRDL) - nivel de un desinfectante añadido para el tratamiento del agua que no puede exceder en el grifo del consumidor sin una posibilidad inaceptable de efectos adversos para la salud. Para el cloro y las cloraminas, un sistema cumple con el MRDL cuando el promedio anual corriente de los promedios mensuales de muestras tomadas en el sistema de distribución, calculado trimestralmente, es menor o igual al MRDL.

Informe al consumidor - Cada sistema de agua comunal debe entregar a sus clientes un breve informe anual de la calidad del agua, conocido como el Informe de Confianza al Consumidor (CCR). Este informe incluirá material educativo, información sobre la fuente del agua, los niveles de contaminantes detectados y el cumplimiento de las regulaciones de agua potable.

Notificación pública - La notificación pública tiene como objetivo garantizar que los consumidores siempre sepan si hay un problema con su agua potable. Estos avisos alertan inmediatamente a los consumidores si existe un problema grave con su agua potable que pueda representar un riesgo para la salud pública. También notifican a los clientes si su agua no cumple con los estándares de agua potable, el sistema de agua no analiza su agua o si se le ha otorgado al sistema una variación (uso de tecnología menos costosa) o una exención (más tiempo para cumplir con una nueva regulación).

Violaciones Significativas de Monitoreo y Reporte - Para este informe, las violaciones significativas de monitoreo o reporte se definen generalmente como cualquier violación de monitoreo significativa que ocurrió durante el año calendario del informe. Una violación significativa de monitoreo e informe, con raras excepciones, ocurre cuando no se tomaron muestras o no se informaron resultados durante un período de cumplimiento.

Técnicas de tratamiento - una técnica de tratamiento (TT) es un procedimiento requerido o nivel de rendimiento tecnológico que los sistemas de agua deben realizar para garantizar el control de un contaminante.

Varianzas y exenciones - La varianza permite que los sistemas elegibles proporcionen agua potable que no cumpla con algún contaminante primario (NPDWR) con la condición de que el sistema instale una determinada tecnología y la calidad del agua potable siga protegiendo la salud pública. Las exenciones otorgan a los sistemas elegibles un tiempo adicional para lograr y mantener cumplimiento con los nuevos NPDWR, mientras continúan brindando agua en niveles aceptables de protección de la salud pública. La exención no permite que un sistema de agua viole el NPDWR, sino que, permite un tiempo adicional para encontrar una solución de cumplimiento, ya sea mediante tratamiento o una fuente de abasto nueva.

Violación - un incumplimiento de cualquier regulación estatal o federal de agua potable.

Return to Compliance (RTC) - una violación regresa a cumplimiento (RTC) cuando el sistema ha cumplido con todos los requisitos para remediar la violación según lo determinado por las regulaciones federales y estatales de agua potable.

Notificación al Consumidor - Cada sistema de agua comunal está obligado a entregar a sus clientes un breve informe anual sobre la calidad del agua. Este informe debe incluir material educativo y proporcionará información sobre la fuente de agua, los niveles de cualquier contaminante detectado y el cumplimiento de las regulaciones de agua potable.

APÉNDICE B -FUENTES PRINCIPALES DE CONTAMINACIÓN

Los contaminantes en el ambiente pueden entrar en el agua potable antes, durante o después del tratamiento de potabilización. La mayoría de los sistemas tratan su agua, según sea necesario, para garantizar que el agua servida al público cumpla con los estándares de agua potable. Algunas de las fuentes principales de contaminación del agua potable son las siguientes:

ANTES DE TRATAMIENTO:

- Bacteria, virus y protozoarios presentes en la fuente de abasto proveniente de humanos o animales.
- Turbidez en el agua por material suspendido.
- Aguas residuales provenientes de plantas de tratamiento de aguas usadas o sanitarias inapropiadamente tratadas, rotura de líneas o desbordes de aguas usadas, etc.
- Lixiviados de vertederos sanitarios o tanques subterráneos.
- Plaguicidas, fertilizantes o escorrentías agrícolas.
- Desperdicios peligrosos.
- Metales presentes naturalmente en la corteza terrestre.
- Decaimiento de compuestos radiológicos presentes en ambiente.
- Productos químicos industriales inadecuadamente almacenados o manejados.

DURANTE EL TRATAMIENTO

- Malfuncionamiento/operación de unidades de tratamiento o sobredosisificación de químicos.
- Subproductos de desinfección.

DESPUES DE TRATAMIENTO

- Plomo, cobre, asbesto y otros materiales de tuberías corroídas.
 - Microbios y sedimentos que ingresan a través de fugas en tuberías, juntas y válvulas, o roturas de líneas de agua.
 - Conexiones inadecuadas con otros sistemas o conexiones cruzadas con agua no potable que permitan que los contaminantes puedan entrar en las tuberías de agua potable.
 - Permeación de contaminantes a través de ciertos materiales de tubería.
 - Microbios y otros contaminantes que entran o se acumulan dentro de un tanque de almacenamiento de agua tratada funcionando inadecuadamente o mal mantenido.
 - Defectos sanitarios en tanques de almacenamiento de agua potable.
-

- Subproductos de desinfección, crecimiento microbiano, crecimiento de biopelículas (*biofilm*) o nitrificación, agua con bajo o ningún residual ocasionado por una operación o mantenimiento inadecuados de los sistemas de distribución.
 - Falta de un programa de desagües de líneas adecuado que ocasionan puntos muertos en red de distribución.
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APÉNDICE C- CONTAMINANTES REGULADOS EN AGUA POTABLE

MICROORGANISMS				
Contaminant	MCLG1 (mg/L)²	MCL or TT¹ (mg/L)²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Cryptosporidium	zero	TT3	Gastrointestinal illness (such as diarrhea, vomiting, and cramps)	Human and animal fecal waste
Giardia lamblia	zero	TT3	Gastrointestinal illness (such as diarrhea, vomiting, and cramps)	Human and animal fecal waste
Heterotrophic plate count (HPC)	n/a	TT3	HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.	HPC measures a range of bacteria that are naturally present in the environment
Legionella	zero	TT3	Legionnaire's Disease, a type of pneumonia	Found naturally in water; multiplies in heating systems
E. coli RTCR Triggers for Level 1 ⁴ and 2 ⁵ Assessment. See Notes.	zero	Absent	Not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present ⁵	Coliforms are naturally present in the environment; as well as feces; fecal coliforms and E. coli only come from human and animal fecal waste.
Turbidity	n/a	TT ³	Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness (such as whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.	Soil runoff
Viruses (enteric)	zero	TT ³	Gastrointestinal illness (such as diarrhea, vomiting, and cramps).	Human and animal fecal waste.

Disinfection Byproducts				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Bromate	zero	0.010	Increased risk of cancer	Byproduct of drinking water disinfection
Chlorite	0.8	1.0	Anemia; infants and young children: nervous system effects	Byproduct of drinking water disinfection
Haloacetic acids (HAA5)	n/a ⁶	0.060	Increased risk of cancer	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHMs)	n/a ⁶	0.08	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection
Chloramines (as Cl ₂)	MRDLG=41	MRDL=4.01	Eye/nose irritation; stomach discomfort, anemia	Water additive used to control microbes
Chlorine (as Cl ₂)	MRDLG=41	MRDL=4.01	Eye/nose irritation; stomach discomfort	Water additive used to control microbes
Chlorine dioxide (as ClO ₂)	MRDLG=0.81	MRDL=0.81	Anemia; infants and young children: nervous system effects	Water additive used to control microbes

INORGANIC CHEMICALS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Antimony	0.006	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic Quick reference guide Consumer fact sheet	0	0.010	Skin damage or problems with circulatory systems, and may have increased risk of getting cancer	Erosion of natural deposits; runoff from orchards, runoff from glass and electronics production wastes
Asbestos (fiber > 10 micrometers)	7 million fibers per liter (MFL)	7 MFL	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits
Barium	2	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium	0.004	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries

INORGANIC CHEMICALS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Cadmium	0.005	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (total)	0.1	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits
Copper	1.3	TT ⁷ ; Action Level=1.3	Short term exposure: Gastrointestinal distress. Long term exposure: Liver or kidney damage. People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level	Corrosion of household plumbing systems; erosion of natural deposits
Cyanide (as free cyanide)	0.2	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	4.0	4.0	Bone disease (pain and tenderness of the bones); Children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
Lead	zero	TT ⁷ ; Action Level=0.015	Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities Adults: Kidney problems; high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits
Mercury (inorganic)	0.002	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands

INORGANIC CHEMICALS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Nitrate (measured as Nitrogen)	10	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits
Nitrite (measured as Nitrogen)	1	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits
Selenium	0.05	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
Thallium	0.0005	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

ORGANIC CHEMICALS, EXCEPT PFAS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Acrylamide	zero	TT ⁸	Nervous system or blood problems; increased risk of cancer	Added to water during sewage/wastewater treatment
Alachlor	zero	0.002	Eye, liver, kidney or spleen problems; anemia; increased risk of cancer	Runoff from herbicide used on row crops
Atrazine	0.003	0.003	Cardiovascular system or reproductive problems	Runoff from herbicide used on row crops
Benzene	zero	0.005	Anemia; decrease in blood platelets; increased risk of cancer	Discharge from factories; leaching from gas storage tanks and landfills
Benzo(a)pyrene (PAHs)	zero	0.0002	Reproductive difficulties; increased risk of cancer	Leaching from linings of water storage tanks and distribution lines
Carbofuran	0.04	0.04	Problems with blood, nervous system, or reproductive system	Leaching of soil fumigant used on rice and alfalfa

ORGANIC CHEMICALS, EXCEPT PFAS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Carbon tetrachloride	zero	0.005	Liver problems; increased risk of cancer	Discharge from chemical plants and other industrial activities
Chlordane	zero	0.002	Liver or nervous system problems; increased risk of cancer	Residue of banned termiticide
Chlorobenzene	0.1	0.1	Liver or kidney problems	Discharge from chemical and agricultural chemical factories
2,4-D	0.07	0.07	Kidney, liver, or adrenal gland problems	Runoff from herbicide used on row crops
Dalapon	0.2	0.2	Minor kidney changes	Runoff from herbicide used on rights of way
1,2-Dibromo-3-chloropropane (DBCP)	zero	0.0002	Reproductive difficulties; increased risk of cancer	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
o-Dichlorobenzene	0.6	0.6	Liver, kidney, or circulatory system problems	Discharge from industrial chemical factories
p-Dichlorobenzene	0.075	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories
1,2-Dichloroethane	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
1,1-Dichloroethylene	0.007	0.007	Liver problems	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	0.07	0.07	Liver problems	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene	0.1	0.1	Liver problems	Discharge from industrial chemical factories
Dichloromethane	zero	0.005	Liver problems; increased risk of cancer	Discharge from drug and chemical factories
1,2-Dichloropropane	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
Di(2-ethylhexyl) adipate	0.4	0.4	Weight loss, liver problems, or possible reproductive difficulties.	Discharge from chemical factories

ORGANIC CHEMICALS, EXCEPT PFAS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Di(2-ethylhexyl) phthalate	zero	0.006	Reproductive difficulties; liver problems; increased risk of cancer	Discharge from rubber and chemical factories
Dinoseb	0.007	0.007	Reproductive difficulties	Runoff from herbicide used on soybeans and vegetables
Dioxin (2,3,7,8-TCDD)	zero	0.00000003	Reproductive difficulties; increased risk of cancer	Emissions from waste incineration and other combustion; discharge from chemical factories
Diquat	0.02	0.02	Cataracts	Runoff from herbicide use
Endothall	0.1	0.1	Stomach and intestinal problems	Runoff from herbicide use
Endrin	0.002	0.002	Liver problems	Residue of banned insecticide
Epichlorohydrin	zero	TT8	Increased cancer risk, and over a long period of time, stomach problems	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylbenzene	0.7	0.7	Liver or kidneys problems	Discharge from petroleum refineries
Ethylene dibromide	zero	0.00005	Problems with liver, stomach, reproductive system, or kidneys; increased risk of cancer	Discharge from petroleum refineries
Glyphosate	0.7	0.7	Kidney problems; reproductive difficulties	Runoff from herbicide use
Heptachlor	zero	0.0004	Liver damage; increased risk of cancer	Residue of banned termiticide
Heptachlor epoxide	zero	0.0002	Liver damage; increased risk of cancer	Breakdown of heptachlor
Hexachlorobenzene	zero	0.001	Liver or kidney problems; reproductive difficulties; increased risk of cancer	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene	0.05	0.05	Kidney or stomach problems	Discharge from chemical factories
Lindane	0.0002	0.0002	Liver or kidney problems	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	0.04	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock

ORGANIC CHEMICALS, EXCEPT PFAS

Contaminant	MCLG1 (mg/L)²	MCL or TT¹ (mg/L)²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Oxamyl (Vydate)	0.2	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Polychlorinated biphenyls (PCBs)	zero	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; increased risk of cancer	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	zero	0.001	Liver or kidney problems; increased cancer risk	Discharge from wood preserving factories
Picloram	0.5	0.5	Liver problems	Herbicide runoff
Simazine	0.004	0.004	Problems with blood	Herbicide runoff
Styrene	0.1	0.1	Liver, kidney, or circulatory system problems	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	zero	0.005	Liver problems; increased risk of cancer	Discharge from factories and dry cleaners
Toluene	1	1	Nervous system, kidney, or liver problems	Discharge from petroleum factories
Toxaphene	zero	0.003	Kidney, liver, or thyroid problems; increased risk of cancer	Runoff/leaching from insecticide used on cotton and cattle
2,4,5-TP (Silvex)	0.05	0.05	Liver problems	Residue of banned herbicide
1,2,4-Trichlorobenzene	0.07	0.07	Changes in adrenal glands	Discharge from textile finishing factories
1,1,1-Trichloroethane	0.20	0.2	Liver, nervous system, or circulatory problems	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	0.003	0.005	Liver, kidney, or immune system problems	Discharge from industrial chemical factories
Trichloroethylene	zero	0.005	Liver problems; increased risk of cancer	Discharge from metal degreasing sites and other factories
Vinyl chloride	zero	0.002	Increased risk of cancer	Leaching from PVC pipes; discharge from plastic factories
Xylenes (total)	10	10	Nervous system damage	Discharge from petroleum factories; discharge from chemical factories

RADIONUCLIDES				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Alpha particles	none -- ----- - zero	15 picocuries per Liter (pCi/L)	Increased risk of cancer	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Beta particles and photon emitters	none -- ----- - zero	4 millirems per year	Increased risk of cancer	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation
Radium 226 and Radium 228 (combined)	none -- ----- - zero	5 pCi/L	Increased risk of cancer	Erosion of natural deposits
Uranium	zero	30 ug/L	Increased risk of cancer, kidney toxicity	Erosion of natural deposits

PFAS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	1(unitless)	1(unitless)	Low levels of multiple PFAS that individually would not likely result in increased risk of adverse health effects may result in adverse health effects when combined in a mixture. Increased health risks include liver, immune, and thyroid effects. Additionally, developmental and thyroid effects following repeated exposure during pregnancy and/or childhood.	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities.
HFPO-DA (commonly known as GenX Chemicals)	0.00001	0.00001	Immune, liver and kidney effects; potential concern for cancer Developmental effects following repeated exposure during pregnancy and/or childhood	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products,

PFAS				
Contaminant	MCLG1 (mg/L) ²	MCL or TT ¹ (mg/L) ²	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
				occupational exposures, and certain firefighting activities.
PFBS	No individual MCLG	No individual MCL	See Hazard Index PFAS information	See Hazard Index PFAS information
PFHxS	0.00001	0.00001	Immune, thyroid, and liver effects Developmental effects following repeated exposure during pregnancy and/or childhood	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities.
PFNA	0.00001	0.00001	Elevated cholesterol levels and immune and liver effects Developmental effects following repeated exposure during pregnancy and/or childhood	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities.
PFOA	zero	0.0000040	Cardiovascular, immune and liver effects; increased incidence of certain types of cancers including kidney and testicular Developmental and immune effects following repeated exposure during pregnancy and/or childhood	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities.
PFOS	zero	0.0000040	Cardiovascular, immune and liver effects; increased incidence of certain types of cancers including liver Developmental and immune effects following repeated exposure during pregnancy and/or childhood	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities.

PFAS	HBWC ⁹ (mg/L) ² for Hazard Index Calculation
Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	Not applicable
HFPO-DA (commonly known as GenX Chemicals)	0.00001
PFBS	0.002
PFHxS	0.00001
PFNA	0.00001
PFOA	Not applicable
PFOS	Not applicable

Notes:

1 Definitions:

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

2 Units are in milligrams per liter (mg/L) unless otherwise noted. Milligrams per liter are equivalent to parts per million (PPM).

3 EPA's surface water treatment rules require systems using surface water or ground water under the direct influence of surface water to

- a. Disinfect their water, and
- b. Filter their water, or
- c. Meet criteria for avoiding filtration so that the following contaminants are controlled at the following levels:

Cryptosporidium: Unfiltered systems are required to include *Cryptosporidium* in their existing watershed control provisions

Giardia lamblia: 99.9% removal/inactivation.

Viruses: 99.99% removal/inactivation.

Legionella: No limit, but EPA believes that if *Giardia* and viruses are removed/inactivated, according to the treatment techniques in the Surface Water Treatment Rule, *Legionella* will also be controlled.

Turbidity: For systems that use conventional or direct filtration, at no time can turbidity (cloudiness of water) go higher than 1 Nephelometric Turbidity Unit (NTU), and samples for turbidity must be less than or equal to 0.3 NTUs in at least 95 percent of the samples in any month. Systems that use filtration other than the conventional or direct filtration must follow state limits, which must include turbidity at no time exceeding 5 NTUs.

Heterotrophic Plate Count (HPC): No more than 500 bacterial colonies per milliliter.

Long Term 1 Enhanced Surface Water Treatment: Surface water systems or groundwater under the direct influence (GWUDI) systems serving fewer than 10,000 people must comply with the applicable Long Term 1 Enhanced Surface Water Treatment Rule provisions (such as turbidity standards, individual filter monitoring, *Cryptosporidium* removal requirements, updated watershed control requirements for unfiltered systems).

Long Term 2 Enhanced Surface Water Treatment Rule: This rule applies to all surface water systems or ground water systems under the direct influence of surface water. The rule targets additional *Cryptosporidium* treatment requirements for higher risk systems and includes provisions to reduce risks from uncovered finished water storage facilities and to ensure that the systems maintain microbial protection as they take steps to reduce the formation of disinfection byproducts.

Filter Backwash Recycling: This rule requires systems that recycle to return specific recycle flows through all processes of the system's existing conventional or direct filtration system or at an alternate location approved by the state.

4 Level 1- A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. Level 1 treatment technique triggers: (i) For systems taking 40 or more samples per month, the system exceeds 5.0% total coliform-positive samples for the month. (ii) For systems taking fewer than 40 samples per month, the system has two or more total coliform-positive samples in the same month. (iii) The system fails to take every required repeat sample after any single total coliform-positive sample.

5 Level 2- A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions. Level 2 treatment technique triggers. (i) An *E. coli* MCL violation, as specified in [§ 141.860\(a\)](#). (ii) A second Level 1 trigger as defined in [paragraph \(a\)\(i\)](#) of this section, within a rolling 12-month period, unless the State has determined a likely reason that the samples that caused the first Level 1 treatment technique trigger were total coliform-positive and has established that the system has corrected the problem. (iii) For systems with approved annual monitoring, a Level 1 trigger in two consecutive years.

6 Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants:

Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L); chloroform (0.07 mg/L).

Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07mg/L). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

7 Lead and copper are regulated by a treatment technique that requires systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps. For copper, the action level is 1.3 mg/L, and for lead is 0.015 mg/L.

8 Each water system must certify, in writing, to the state (using third-party or manufacturer's certification) that when acrylamide and epichlorohydrin are used to treat water, the combination (or product) of dose and monomer level does not exceed the levels specified, as follows:

Acrylamide = 0.05% dosed at 1 mg/L (or equivalent)

Epichlorohydrin = 0.01% dosed at 20 mg/L (or equivalent)

9 Health Based Water Concentration (HBWC) - To calculate the Hazard Index, a ratio is developed for each PFAS by dividing the measured level of the PFAS in drinking water by the level below which adverse health effects are not likely to occur (i.e., the Health Based Water Concentration).

APÉNDICE D- TÉCNICAS DE TRATAMIENTO ADICIONAL LT2-MICROBIAL TOOLBOX

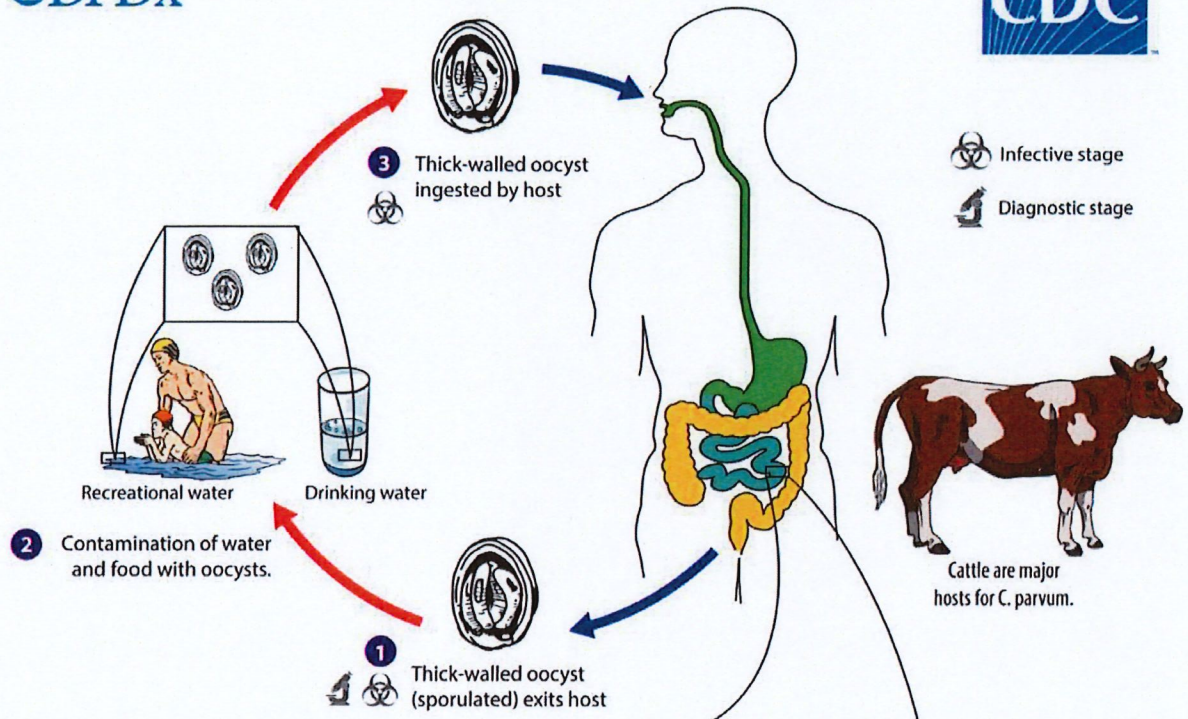
Toolbox Option	<i>Cryptosporidium</i> treatment credit with design and implementation criteria
Source Protection and Management Toolbox Options	
(1) Watershed control program	0.5-log credit for State-approved program comprising required elements, annual program status report to State, and regular watershed survey. Unfiltered systems are not eligible for credit. Specific criteria are in § 141.716(a) .
(2) Alternative source/intake management	No prescribed credit. Systems may conduct simultaneous monitoring for treatment bin classification at alternative intake locations or under alternative intake management strategies. Specific criteria are in § 141.716(b) .
Pre-Filtration Toolbox Options	
(3) Presedimentation basin with coagulation	0.5-log credit during any month that presedimentation basins achieve a monthly mean reduction of 0.5-log or greater in turbidity or alternative State-approved performance criteria. To be eligible, basins must be operated continuously with coagulant addition and all plant flow must pass through basins. Specific criteria are in § 141.717(a) .
(4) Two-stage lime softening	0.5-log credit for two-stage softening where chemical addition and hardness precipitation occur in both stages. All plant flow must pass through both stages. Single-stage softening is credited as equivalent to conventional treatment. Specific criteria are in § 141.717(b) .
(5) Bank filtration	0.5-log credit for 25-foot setback; 1.0-log credit for 50-foot setback; aquifer must be unconsolidated sand containing at least 10 percent fines; average turbidity in wells must be less than 1 NTU. Systems using wells followed by filtration when conducting source water monitoring must sample the well to determine bin classification and are not eligible for additional credit. Specific criteria are in § 141.717(c) .
Treatment Performance Toolbox Options	
(6) Combined filter performance	0.5-log credit for combined filter effluent turbidity less than or equal to 0.15 NTU in at least 95 percent of measurements each month. Specific criteria are in § 141.718(a) .
(7) Individual filter performance	0.5-log credit (in addition to 0.5-log combined filter performance credit) if individual filter effluent turbidity is less than or equal to 0.15 NTU in at least 95 percent of samples each month in each filter and is never greater than 0.3 NTU in two consecutive measurements in any filter. Specific criteria are in § 141.718(b) .
(8) Demonstration of performance	Credit awarded to unit process or treatment train based on a demonstration to the State with a State-approved protocol. Specific criteria are in § 141.718(c) .

Toolbox Option		<i>Cryptosporidium</i> treatment credit with design and implementation criteria
Additional Filtration Toolbox Options		
(9) Bag or cartridge filters (individual filters)	Up to 2-log credit based on the removal efficiency demonstrated during challenge testing with a 1.0-log factor of safety. Specific criteria are in § 141.719(a) .	
(10) Bag or cartridge filters (in series)	Up to 2.5-log credit based on the removal efficiency demonstrated during challenge testing with a 0.5-log factor of safety. Specific criteria are in § 141.719(a) .	
(11) Membrane filtration	Log credit equivalent to removal efficiency demonstrated in challenge test for device if supported by direct integrity testing. Specific criteria are in § 141.719(b) .	
(12) Second stage filtration	0.5-log credit for second separate granular media filtration stage if treatment train includes coagulation prior to first filter. Specific criteria are in § 141.719(c)	
(13) Slow sand filters	2.5-log credit as a secondary filtration step; 3.0-log credit as a primary filtration process. No prior chlorination for either option. Specific criteria are in § 141.719(d) .	
Inactivation Toolbox Options		
(14) Chlorine dioxide	Log credit based on measured CT in relation to CT table. Specific criteria in § 141.720(b)	
(15) Ozone	Log credit based on measured CT in relation to CT table. Specific criteria in § 141.720(b) .	
(16) UV	Log credit based on validated UV dose in relation to UV dose table; reactor validation testing required to establish UV dose and associated operating conditions. Specific criteria in § 141.720(d) .	

APÉNDICE E- CICLO DE VIDA DE CRYPTOSPORIDIUM

4DPDX

Cryptosporidium spp.



WATER PURIFICATION

