

Table 2-4. Monitor Well Data Summary, 2024 Annual Event
2024 Response Action Effectiveness Report
Former Cameron Iron Works Facility, Houston, Texas

Analyte Group (Method):			Volatile Organic Compounds (SW8260D)						
CAS:			75-34-3	75-35-4	107-06-2	156-59-2	127-18-4	79-01-6	75-01-4
Analyte:			1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Well ID	Well Type	Date Collected							
I. Upgradient Plume Wells (Groundwater Ingestion and Inhalation of Volatiles from Groundwater Pathways)									
		cPCL:	4.9	0.007	0.005	0.07	0.005	0.005	0.002
MW-01	Monitor Well	12/13/2024	< 0.000635	0.00246	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-15R	Monitor Well	12/16/2024	< 0.000635	0.00268	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-16R	Monitor Well	12/16/2024	0.0102	0.0119	< 0.000372	0.00184	0.015	0.00393 J	< 0.000428
MW-17R	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-50R	Monitor Well	12/12/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-65	Monitor Well	12/17/2024	0.00453	0.0064	< 0.000372	0.00149	0.00519	< 0.0015	< 0.000428
MW-70	Monitor Well	12/27/2024	0.00188	0.00253	< 0.000372	0.0015	0.00108	< 0.0015	0.000567 J
MW-71	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-74	Monitor Well	NS	NS	NS	NS	NS	NS	NS	NS
MW-76	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	0.00132	< 0.0015	< 0.000428
MW-77	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-83	Monitor Well	12/16/2024	0.0786	0.744 J	0.00194 JL	0.0145	0.136	0.00951 JL	0.0044 JL
MW-88	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	0.0029	< 0.0015	< 0.000428
MW-90	Monitor Well	12/16/2024	0.0436	0.154	0.000528 J	0.00286	0.0182	0.00473 J	< 0.000428
MW-97	Monitor Well	NS	NS	NS	NS	NS	NS	NS	NS
MW-100	Monitor Well	12/16/2024	0.00131	0.00498	< 0.000372	0.00414	0.000964 J	< 0.0015	0.000708 J
MW-108	Monitor Well	12/13/2024	< 0.000635	0.00279	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-109	Monitor Well	12/13/2024	0.0219	0.0076	< 0.000372	0.0149	0.00455	0.00227 J	0.00783
MW-110	Monitor Well	12/12/2024	0.00349	0.00144	< 0.000372	0.024	0.00494	0.04	0.000828 J
MW-111	Monitor Well	12/13/2024	0.0334	0.0347	< 0.000372	0.000768 J	0.00336	< 0.0015	0.0187
MW-112	Monitor Well	12/12/2024	0.018	0.0169	0.00156	0.000773 J	< 0.000655	< 0.0015	0.00587
MW-113	Monitor Well	12/17/2024	J	< 0.000738	< 0.000372	< 0.000457	0.00747	< 0.0015	< 0.000428
MW-121	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-145	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-146	Monitor Well	12/13/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-147	Monitor Well	12/13/2024	0.00105	0.00191	< 0.000372	0.00153	0.00234	< 0.0015	< 0.000428
MW-160	Monitor Well	12/16/2024	0.00292	0.00519	< 0.000372	0.00645	0.0147	0.00396 J	< 0.000428
MW-160	Monitor Well	02/27/2025	0.00375	0.00616	< 0.000372	0.00782	0.0188	0.00412 J	< 0.000428
MW-161	Monitor Well	12/13/2024	0.00721	0.0172	< 0.000372	0.00192	0.00139	0.00425 J	< 0.000428
MW-162	Monitor Well	12/13/2024	< 0.000635	0.00266	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-163	Monitor Well	12/16/2024	0.0116	0.0216	< 0.000372	0.0723	0.0392	0.0128	0.00811
MW-168	Monitor Well	NS	NS	NS	NS	NS	NS	NS	NS
MW-178	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-181	Monitor Well	12/13/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-182	Monitor Well	12/13/2024	< 0.000635	0.00534	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-183	Monitor Well	04/17/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-183	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428

Table 2-4. Monitor Well Data Summary, 2024 Annual Event
 2024 Response Action Effectiveness Report
 Former Cameron Iron Works Facility, Houston, Texas

Analyte Group (Method):			Volatile Organic Compounds (SW8260D)						
CAS:			75-34-3	75-35-4	107-06-2	156-59-2	127-18-4	79-01-6	75-01-4
Analyte:			1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Well ID	Well Type	Date Collected							
MW-184	Monitor Well	12/17/2024	0.19	0.226	< 0.00744	0.843	1.35	0.739	0.246
MW-185	PMW	12/17/2024	< 0.0127	< 0.0148	< 0.00744	0.0229	1.37	0.145	< 0.00856
MW-186	PMW	12/17/2024	0.0604	0.122	< 0.00186	0.0545	0.0164	0.00887 J	0.0352
II. Wells Immediately Upgradient of HCFC D (Groundwater Ingestion, Inhalation of Volatiles from Groundwater, and Groundwater to Surface Water Discharge Pathways)									
cPCL:			0.21	0.007	0.005	0.07	0.005	0.005	0.002
MW-89	Monitor Well	12/16/2024	< 0.000635	0.00279 J	< 0.000372	< 0.000457	< 0.000655	< 0.0015	0.00443 J
MW-106	Monitor Well	NS	NS	NS	NS	NS	NS	NS	NS
MW-122	Monitor Well	12/16/2024	0.0021	0.0242	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
III. Wells Immediately Upgradient of Buffalo Bayou (Groundwater Ingestion, Inhalation of Volatiles from Groundwater, and Groundwater to Surface Water Discharge Pathways)									
cPCL:			0.21	0.007	0.005	0.07	0.005	0.005	0.002
MW-92	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	0.000879 J	< 0.0015	< 0.000428
MW-93R	Monitor Well	12/16/2024	0.00205	0.00999	< 0.000372	0.00106	0.0798	0.00542	< 0.000428
MW-98	Monitor Well	NS	NS	NS	NS	NS	NS	NS	NS
MW-179	Monitor Well	12/16/2024	0.00491	0.0308	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428
MW-180	Monitor Well	12/16/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428

Notes:

The concentrations are presented in milligrams per liter (mg/L).

The cPCLs for upgradient plume wells are the lower of the ^{GW}GW_{ing} and ^{Air}GW_{inh-v} Tier 1 PCLs for residential land use based on the latest PCL tables (February 2025).

The cPCLs for the wells immediately upgradient of HCFC D and Buffalo Bayou are the lower of the ^{SW}GW PCL, ^{GW}GW_{ing}, ^{Air}GW_{inh-v} Tier 1 PCLs for residential land use based on the latest PCL tables (February 2025).

The dilution factor used for development of ^{SW}GW PCLs is 1.

Bold values indicate a detected concentration.

Bold and shaded values exceed the cPCL at the same number of significant figures as the criterion.

< = nondetected result less than the sample detection limit

^{GW}GW_{ing} = groundwater ingestion pathway

^{Air}GW_{inh-v} = inhalation of volatiles from groundwater

^{SW}GW = groundwater to surface water discharge pathway

CAS = Chemical Abstracts Service

cPCL = critical protective concentration level

HCFC D = Harris County Flood Control Ditch

ID = identification

ISCO = in situ chemical oxidation

J = estimated concentration

JL = estimated concentration biased low

NS = not sampled due to no access agreement

MW = monitor well

PCL = protective concentration levels

PMW = ISCO performance monitor well

R = replacement well

Table 2-5. Surface Water Data Summary, 2024 Annual Event
2024 Response Action Effectiveness Report
Former Cameron Iron Works Facility, Houston, Texas

Analyte Group (Method):			Volatile Organic Compounds (SW8260D)						
CAS:			75-34-3	75-35-4	107-06-2	156-59-2	127-18-4	79-01-6	75-01-4
Analyte:			1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
cPCL (Surface Water):			0.21	3.03	12.6	14.0	1.28	3.00	2.00
Well ID	Well Type	Date Collected							
SWD-12	HCFC	12/12/2024	0.00135	0.00554	< 0.000372	0.00174	0.0014	0.002 J	< 0.000428
SWD-14	HCFC	12/12/2024	0.00109	0.00606	< 0.000372	0.000758 J	0.00121	< 0.0015	< 0.000428
SWD-15	HCFC	12/12/2024	0.00107	0.0146	< 0.000372	< 0.000457	< 0.000655	< 0.0015	0.00117 J
SWD-17	HCFC	12/12/2024	< 0.000635	0.00278	< 0.000372	< 0.000457	0.00125	< 0.0015	< 0.000428
SWD-18	HCFC	12/12/2024	< 0.000635	0.0017	< 0.000372	< 0.000457	0.000959 J	< 0.0015	< 0.000428
SWD-20	HCFC	12/12/2024	< 0.000635	< 0.000738	< 0.000372	< 0.000457	< 0.000655	< 0.0015	< 0.000428

Notes:

The concentrations are presented in milligrams per liter (mg/L).

The cPCLs for surface water at HCFC are the lower values of aquatic life benchmarks updated in October 2024 based on intermittent stream condition of the HCFC.

There is no surface water cPCL exceedance.

Bold values indicate a detected concentration.

< = nondetected result less than the sample detection limit

CAS = Chemical Abstracts Service

cPCL = critical protective concentration level

HCFC = Harris County Flood Control Ditch

ID = identification

J = estimated concentration

SWD = surface water sampling location