

Appendix Table 1-2. Methods, reporting levels, and laboratories used for chemical analysis for the Deepwater Horizon oil spill, Gulf of Mexico, 2010: organic contaminants in whole sediment.

[Method codes are from the National Water Information System (NWIS) database, and are defined in *Table 1-6. Abbreviations*: a, no reporting level because analyte was detected in all samples; CASRN, Chemical Abstracts Services Registry Number; FNU, formazin nephelometric unit; na, not applicable; NWQL, National Water Quality Laboratory, Denver, Colorado; pcode, parameter code from the U.S. Geological Survey NWIS database; SCL, Sediment Chemistry Laboratory, Atlanta, Georgia; TAL-CO, TestAmerica Laboratory, Denver, Colorado; TAL-FL, TestAmerica Laboratory, Pensacola, Florida; TAL-VT, TestAmerica Laboratory, Burlington, Vermont; USGS, U.S. Geological Survey; µg/kg, microgram per kilogram; µg/kg, microgram per kilogram as diphenylamine; mg/kg, milligram per kilogram; ", cell is identical to the cell immediately above]

Analyte or parameter	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
1,2,4-Trichlorobenzene	120-82-1	64095	USGS NWQL	GCM13	14-120	µg/kg
1,2-Dimethylnaphthalene	573-98-8	64097	USGS NWQL	GCM13	14-120	µg/kg
1,6-Dimethylnaphthalene	575-43-9	64099	USGS NWQL	GCM13	14-120	µg/kg
1-Methylfluorene	1730-37-6	64100	USGS NWQL	GCM13	14-120	µg/kg
1-Methylnaphthalene	90-12-0	63165	TAL-VT	GM026	0.22-1.6	µg/kg
1-Methylphenanthrene	832-69-9	64101	USGS NWQL	GCM13	14-120	µg/kg
"	"	"	TAL-VT	GM026	0.19-1.2	"
1-Methylpyrene	2381-21-7	64102	USGS NWQL	GCM13	14-120	µg/kg
2,3,5-Trimethylnaphthalene	2245-38-7	68077	TAL-VT	GCM76	0.22-1.6	µg/kg
"	"	"	"	GM026	0.21-1.0	"
2,3,6-Trimethylnaphthalene	829-26-5	64103	USGS NWQL	GCM13	14-120	µg/kg
2,4,5-Trichlorophenol	95-95-4	62266	TAL-FL	GM027	36-270	µg/kg
2,4,6-Trichlorophenol	88-06-2	34624	TAL-FL	GM027	36-270	µg/kg
2,4-Dichlorophenol	120-83-2	34604	TAL-FL	GM027	36-270	µg/kg
2,4-Dimethylphenol	105-67-9	34609	TAL-FL	GM027	36-270	µg/kg
2,4-Dinitrophenol	51-28-5	34619	TAL-FL	GM027	320-2,400	µg/kg
2,4-Dinitrotoluene	121-14-2	34614	TAL-FL	GM027	36-270	µg/kg
2,6-Dimethylnaphthalene	581-42-0	63167	USGS NWQL	GCM13	14-120	µg/kg
"	"	"	TAL-VT	GM026	0.23-1.7	"
2,6-Dinitrotoluene	606-20-2	34629	TAL-FL	GM027	36-270	µg/kg
2-Chloronaphthalene	91-58-7	34584	TAL-FL	GM027	36-270	µg/kg
2-Chlorophenol	95-57-8	34589	TAL-FL	GM027	36-270	µg/kg
2-Ethyl-naphthalene	939-27-5	64104	USGS NWQL	GCM13	14-120	µg/kg
2-Methyl-4,6-dinitrophenol	534-52-1	34660	TAL-FL	GM027	36-270	µg/kg
2-Methylanthracene	613-12-7	64105	USGS NWQL	GCM13	14-120	µg/kg
2-Methylnaphthalene	91-57-6	63168	TAL-FL	GM027	41-42	µg/kg
"	"	"	TAL-VT	GM026	0.27-2.0	"
2-Naphthylamine	91-59-8	64058	TAL-FL	GM027	36-270	µg/kg
2-Nitrophenol	88-75-5	34594	TAL-FL	GM027	36-270	µg/kg
3,3'-Dichlorobenzidine	91-94-1	34634	TAL-FL	GM027	36-270	µg/kg
3-Nitroaniline	99-09-2	62270	TAL-FL	GM027	36-270	µg/kg
4-Bromophenyl phenyl ether	101-55-3	34639	TAL-FL	GM027	36-270	µg/kg
4-Chloro-3-methylphenol	59-50-7	34455	TAL-FL	GM027	36-270	µg/kg
4-Chloroaniline	106-47-8	62271	TAL-FL	GM027	36-270	µg/kg
4-Chlorophenyl phenyl ether	7005-72-3	34644	TAL-FL	GM027	36-270	µg/kg
4H-Cyclopenta[d,e]phenanthrene	203-64-5	64106	USGS NWQL	GCM13	14-120	µg/kg

Appendix Table 1-2. Methods, reporting levels, and laboratories used for chemical analysis for the Deepwater Horizon oil spill, Gulf of Mexico, 2010: organic contaminants in whole sediment.—Continued

[Method codes are from the National Water Information System (NWIS) database, and are defined in *Table 1-6. Abbreviations*: a, no reporting level because analyte was detected in all samples; CASRN, Chemical Abstracts Services Registry Number; FNU, formazin nephelometric unit; na, not applicable; NWQL, National Water Quality Laboratory, Denver, Colorado; pcode, parameter code from the U.S. Geological Survey NWIS database; SCL, Sediment Chemistry Laboratory, Atlanta, Georgia; TAL-CO, TestAmerica Laboratory, Denver, Colorado; TAL-FL, TestAmerica Laboratory, Pensacola, Florida; TAL-VT, TestAmerica Laboratory, Burlington, Vermont; USGS, U.S. Geological Survey; µg/kg, microgram per kilogram; µg/kg, microgram per kilogram as diphenylamine; mg/kg, milligram per kilogram; ", cell is identical to the cell immediately above]

Analyte or parameter	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
4-Nitroaniline	100-01-6	62273	TAL-FL	GM027	36–270	µg/kg
4-Nitrophenol	100-02-7	34649	TAL-FL	GM027	120–900	µg/kg
9,10-Anthraquinone	84-65-1	63181	USGS NWQL	GCM13	14–120	µg/kg
Acenaphthene	83-32-9	64108	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.2–1.5	"
Acenaphthylene	208-96-8	64109	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.19–1.4	"
Acetophenone	98-86-2	63178	TAL-FL	GM027	36–270	µg/kg
Anthracene	120-12-7	63180	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.19–1.1	"
Atrazine	1912-24-9	63182	TAL-FL	GM027	36–270	µg/kg
Benzaldehyde	100-52-7	68046	TAL-FL	GM027	36–270	µg/kg
Benzo[a]anthracene	56-55-3	63610	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.2–1.5	"
Benzo[a]pyrene	50-32-8	63183	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.2–1.5	"
Benzo[b]fluoranthene	205-99-2	64111	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.19–1.4	"
Benzo[e]pyrene	192-97-2	64112	USGS NWQL	GCM13	14–120	µg/kg
"	"	"	TAL-VT	GM026	0.31–2.3	"
Benzo[g,h,i]perylene	191-24-2	64113	USGS NWQL	GCM13	14–120	µg/kg
"	"	"	TAL-VT	GM026	0.21–1.6	"
Benzo[k]fluoranthene	207-08-9	64114	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.32–2.4	"
Benzyl <i>n</i> -butylphthalate	85-68-7	68024	TAL-FL	GM027	36–270	µg/kg
Biphenyl	92-52-4	63752	TAL-FL	GM027	41–42	µg/kg
"	"	"	TAL-VT	GM026	0.23–1.7	"
<i>bis</i> (2-chloro-1-methylethyl) ether	108-60-1	68078	TAL-FL	GM025	36–270	µg/kg
<i>Bis</i> (2-chloroethoxy)methane	111-91-1	34281	TAL-FL	GM027	36–270	µg/kg

Appendix Table 1-2. Methods, reporting levels, and laboratories used for chemical analysis for the Deepwater Horizon oil spill, Gulf of Mexico, 2010: organic contaminants in whole sediment.—Continued

Analyte or parameter	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
Bis(2-chloroethyl) ether	111-44-4	34276	TAL-FL	GM027	36–270	µg/kg
Bis-2-ethylhexylphthalate	117-81-7	39102	TAL-FL	GM027	36–270	µg/kg
C1-alkylated Chrysenes	41637-90-5	68083	TAL-VT	GM026	0.19–5.5	µg/kg
C1-alkylated Dibenzothiophenes	30995-64-3	68084	TAL-VT	GM026	0.19–5.5	µg/kg
C1-alkylated Fluoranthenes/pyrenes	na	64132	TAL-VT	GM026	0.22–5.5	µg/kg
C1-alkylated Fluorenes	26914-17-0	68085	TAL-VT	GM026	0.23–5.5	µg/kg
C1-alkylated Naphthalenes	1321-94-4	64122	TAL-VT	GM026	0.24–5.5	µg/kg
C1-alkylated Phenanthrenes/anthracenes	na	64127	TAL-VT	GM026	0.19–5.5	µg/kg
C2-alkylated Chrysenes	na	68086	TAL-VT	GM026	0.19–5.5	µg/kg
C2-alkylated Dibenzothiophenes	na	68087	TAL-VT	GM026	0.19–5.5	µg/kg
C2-alkylated Fluoranthenes/pyrenes	na	64133	TAL-VT	GM026	0.22–5.5	µg/kg
C2-alkylated Fluorenes	na	68088	TAL-VT	GM026	0.23–5.5	µg/kg
C2-alkylated Naphthalenes	na	64123	TAL-VT	GM026	0.24–5.5	µg/kg
C2-alkylated Phenanthrenes/anthracenes	na	64128	TAL-VT	GM026	0.19–5.5	µg/kg
C3-alkylated Chrysenes	na	68089	TAL-VT	GM026	0.19–5.5	µg/kg
C3-alkylated Dibenzothiophenes	na	68090	TAL-VT	GM026	0.19–5.5	µg/kg
C3-alkylated Fluoranthenes/pyrenes	na	64134	TAL-VT	GM026	0.22–5.5	µg/kg
C3-alkylated Fluorenes	na	68091	TAL-VT	GM026	0.23–5.5	µg/kg
C3-alkylated Naphthalenes	na	64124	TAL-VT	GM026	0.24–5.5	µg/kg
C3-alkylated Phenanthrenes/anthracenes	na	64129	TAL-VT	GM026	0.19–5.5	µg/kg
C4-alkylated Chrysenes	na	68092	TAL-VT	GM026	0.19–5.5	µg/kg
C4-alkylated Dibenzothiophenes	na	68093	TAL-VT	GM026	0.19–5.5	µg/kg
C4-alkylated Naphthalenes	na	64125	TAL-VT	GM026	0.24–5.5	µg/kg
C4-alkylated Phenanthrenes/anthracenes	na	64130	TAL-VT	GM026	0.19–5.5	µg/kg
Caprolactam	105-60-2	63753	TAL-FL	GM027	36–270	µg/kg
Carbazole	86-74-8	63194	TAL-FL	GM027	36–270	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
Chrysene	218-01-9	64115	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.19–1.3	"
Dibenzo[a,h]anthracene	53-70-3	64116	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.19–1.0	"
Dibenzofuran	132-64-9	62275	TAL-FL	GM027	36–270	µg/kg
Dibenzothiophene	132-65-0	64117	USGS NWQL	GCM13	14–120	µg/kg
"	"	"	TAL-VT	GM026	0.19–1.2	"

[Method codes are from the National Water Information System (NWIS) database, and are defined in Table 1-6. Abbreviations: a, no reporting level because analyte was detected in all samples; CASRN, Chemical Abstracts Services Registry Number; FNU, formazin nephelometric unit; na, not applicable; NWQL, National Water Quality Laboratory, Denver, Colorado; pcode, parameter code from the U.S. Geological Survey NWIS database; SCL, Sediment Chemistry Laboratory, Atlanta, Georgia; TAL-CO, TestAmerica Laboratory, Denver, Colorado; TAL-FL, TestAmerica Laboratory, Pensacola, Florida; TAL-VT, TestAmerica Laboratory, Burlington, Vermont; USGS, U.S. Geological Survey; µg/kg, microgram per kilogram; µg/kg, microgram per kilogram as diphenylamine; mg/kg, milligram per kilogram; ", cell is identical to the cell immediately above]

Appendix Table 1-2. Methods, reporting levels, and laboratories used for chemical analysis for the Deepwater Horizon oil spill, Gulf of Mexico, 2010: organic contaminants in whole sediment.—Continued

[Method codes are from the National Water Information System (NWIS) database, and are defined in *Table 1-6. Abbreviations*: a, no reporting level because analyte was detected in all samples; CASRN, Chemical Abstracts Services Registry Number; FNU, formazin nephelometric unit; na, not applicable; NWQL, National Water Quality Laboratory, Denver, Colorado; pcode, parameter code from the U.S. Geological Survey NWIS database; SCL, Sediment Chemistry Laboratory, Atlanta, Georgia; TAL-CO, TestAmerica Laboratory, Denver, Colorado; TAL-FL, TestAmerica Laboratory, Pensacola, Florida; TAL-VT, TestAmerica Laboratory, Burlington, Vermont; USGS, U.S. Geological Survey; µg/kg, microgram per kilogram; µg/kg, microgram per kilogram as diphenylamine; mg/kg, milligram per kilogram; ", cell is identical to the cell immediately above]

Analyte or parameter	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
Diethylphthalate	84-66-2	63202	TAL-FL	GM027	36-270	µg/kg
"	"	"	USGS NWQL	GCM13	14-120	"
Dimethylphthalate	131-11-3	68027	TAL-FL	GM027	36-270	µg/kg
Di- <i>n</i> -butyl phthalate	84-74-2	68025	TAL-FL	GM027	36-270	µg/kg
Di- <i>n</i> -octyl phthalate	117-84-0	68026	TAL-FL	GM027	36-270	µg/kg
Fluoranthene	206-44-0	63208	TAL-FL	GM027	41-42	µg/kg
"	"	"	USGS NWQL	GCM13	14-120	"
"	"	"	TAL-VT	GM026	0.21-1.6	"
Fluorene	86-73-7	64107	TAL-FL	GM027	41-42	µg/kg
"	"	"	USGS NWQL	GCM13	14-120	"
"	"	"	TAL-VT	GM026	0.22-1.6	"
Hexachlorobenzene	118-74-1	63631	TAL-FL	GM027	110-820	µg/kg
"	"	"	USGS NWQL	GCM13	14-120	"
Hexachlorobutadiene	87-68-3	39705	TAL-FL	GM027	36-270	µg/kg
Hexachlorocyclopentadiene	77-47-4	49489	TAL-FL	GM027	72-540	µg/kg
Hexachloroethane	67-72-1	34399	TAL-FL	GM027	110-820	µg/kg
Indeno[1,2,3- <i>cd</i>]pyrene	193-39-5	64118	TAL-FL	GM027	41-42	µg/kg
"	"	"	USGS NWQL	GCM13	14-120	"
"	"	"	TAL-VT	GM026	0.19-1.2	"
Isophorone	78-59-1	63212	TAL-FL	GM027	36-270	µg/kg
<i>m</i> -plus <i>p</i> -Cresol	65794-96-9	64061	TAL-FL	GM027	36-270	µg/kg
Naphthalene	91-20-3	63220	TAL-FL	GM027	41-42	µg/kg
"	"	"	USGS NWQL	GCM13	14-120	"
"	"	"	TAL-VT	GM026	0.23-1.7	"
Nitrobenzene	98-95-3	34450	TAL-FL	GM027	36-270	µg/kg
<i>N</i> -Nitrosodi- <i>n</i> -propylamine	621-64-7	34431	TAL-FL	GM027	120-900	µg/kg
<i>N</i> -Nitrosodiphenylamine	86-30-6	68029	TAL-FL	GM027	36-270	µg/kg DPA
<i>o</i> -Cresol	95-48-7	62268	TAL-FL	GM027	36-270	µg/kg
Oil and grease	na	63716	TAL-CO	GRV29	96-470	mg/kg
"	"	"	TAL-FL	GRV29	44-330	"
Pentachloroisole	1825-21-4	64119	USGS NWQL	GCM13	14-120	µg/kg
Pentachloronitrobenzene	82-68-8	63650	USGS NWQL	GCM13	14-120	µg/kg
Pentachlorophenol	87-86-5	63223	TAL-FL	GM027	72-540	µg/kg
Percent moisture	na	70320	TAL-CO	GRV33	0.1	Percent
"	"	"	TAL-FL	GRV33	0.1	"
"	"	"	TAL-VT	GRV33	0.25	"

Appendix Table 1-2. Methods, reporting levels, and laboratories used for chemical analysis for the Deepwater Horizon oil spill, Gulf of Mexico, 2010: organic contaminants in whole sediment.—Continued

Analyte or parameter	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
Perylene	198-55-0	64120	USGS NWQL	GCM13	14–120	µg/kg
"	"	"	TAL-VT	GM026	0.19–1.0	"
Petroleum hydrocarbons	na	63717	TAL-CO	00138	200–1,000	mg/kg
Phenanthrene	85-01-8	63224	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.19–1.1	"
Phenanthridine	229-87-8	64121	USGS NWQL	GCM13	14–120	µg/kg
Phenol	108-95-2	63225	TAL-FL	GM027	36–270	µg/kg
Pyrene	129-00-0	63227	TAL-FL	GM027	41–42	µg/kg
"	"	"	USGS NWQL	GCM13	14–120	"
"	"	"	TAL-VT	GM026	0.2–1.5	"
Total organic carbon	na	01395	USGS SCL	CMB01	0.1	Percent
Total organic carbon	na	62289	TAL-VT	CMB07	990–1,500	mg/kg
Turbidity	na	63680	na	TS087	a	FNU

¹Range in reporting levels for that analyte, analyzed by that method and laboratory. Reporting level is defined as the concentration set by a laboratory and used for reporting analytical results that are determined to be less than the detection level.

[Method codes are from the National Water Information System (NWIS) database, and are defined in *Table 1-6. Abbreviations*: a, no reporting level because analyte was detected in all samples; CASRN, Chemical Abstracts Services Registry Number; FNU, formazin nephelometric unit; na, not applicable; NWQL, National Water Quality Laboratory, Denver, Colorado; pcode, parameter code from the U.S. Geological Survey NWIS database; SCL, Sediment Chemistry Laboratory, Atlanta, Georgia; TAL-CO, TestAmerica Laboratory, Denver, Colorado; TAL-FL, TestAmerica Laboratory, Pensacola, Florida; TAL-VT, TestAmerica Laboratory, Burlington, Vermont; USGS, U.S. Geological Survey; µg/kg, microgram per kilogram; µg/kg, microgram per kilogram as diphenylamine; mg/kg, milligram per kilogram; ", cell is identical to the cell immediately above]