

Table 5.1
Chemistry QA Targets for LOD/LOQ, Precision and Accuracy

NELAC and NPDES

The two columns on the far right of Table 5.1 indicate whether an analysis method is accredited under NELAC or approved for NPDES work. A “Y” indicates that the method is accredited/approved. An “N” indicates that the method is not accredited/approved or that it is not applicable. An “A” indicates that the method has recently been submitted for NELAC accreditation but is not yet approved. Please note that the accreditation/approval status may change between publications of this Manual. Please check with the laboratory for updated statuses. Note regarding approved methods for NPDES work: Some of the procedures listed on Table 5.1 are alternate versions of EPA Methods. The DEP Laboratory has received approval by the EPA to use the alternate test procedures.

Matrices are denoted as follows:

w: surface, ground and waste water	ws: waste
s: soil, sediment, solid	tclp: EPA 1311 extract
t: animal tissue	splp: EPA 1312 extract
pt: plant tissue	a: air

Keys describing the analyte group designations and clean-up procedures are presented following this table.

Note that LODs and LOQs for soil/sediment matrices are based on method-specific sample dry weights. Detection limits may vary from that published, due to moisture content, dilution effects, interferences, special reporting requirements, etc. "D" in Table 5.1 denotes detection. Detection limits are reported in units of parts per billion (ppb) unless otherwise noted.

The QA targets for all inorganic analyses are within the range of 80 - 120 % for accuracy [except for metals in solid samples, which have been set based on method defined limits (75-125 %) and for metals in water samples with an elevated conductivity, the limits are based on the method defined limits of 70-130%], and ≤ 20 RPD for precision, unless laboratory-generated data indicate that tighter control limits can be routinely maintained. This convention was adopted because targets set according to historical data are usually less stringent. The organic QA targets are statutory in nature; Warning and control limits for organic analyses are initially set for groups of compounds based on preliminary method validation data. When additional data is available, the QA targets may be reconsidered. All QA targets are routinely re-evaluated at least annually (and updated, if necessary) against laboratory generated data to ensure targets continue to reflect realistic, methodologically achievable goals.

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1A	Aluminum	200.2 (mod.)	200.7	w	70 – 130	<20	60	240	1	Y	Y
1A	Aluminum	200.2 (mod.)	6010C	w	75 – 125	<20	60	240	1	Y	N
1A	Aluminum	1311	6010C	tclp	75 – 125	<20	600	2400	1	Y	N
1A	Aluminum	1312	6010C	splp	75 – 125	<20	75	300	1	Y	N
1A	Aluminum	3050B (mod.)	6010C	ws, s	75 – 125	<20	6.0E03	2.4E04	1	Y	N
1A	Aluminum	3050B (mod.)	6010C	t	75 – 125	<20	6.0E03	2.4E04	1	N	N
1A	Aluminum	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	4.0E04	1.6E05	1	Y	N
1B	Aluminum	200.2 (mod.)	200.8	w	70 – 130	<20	5.0	20	1	Y	Y
1B	Aluminum	200.2 (mod.)	6020A	w	75 – 125	<20	5.0	20	1	Y	N
1B	Aluminum	3050B (mod.)	6020A	ws, s	75 – 125	<20	5.0E03	2.0E04	1	N	N
1B	Aluminum	3050B (mod.)	6020A	t	75 – 125	<20	5.0E03	2.0E04	1	N	N
1A	Antimony	200.2 (mod.)	200.7	w	70 – 130	<20	15	60	1	Y	Y
1A	Antimony	200.2 (mod.)	6010C	w	75 – 125	<20	15	60	1	Y	N
1A	Antimony	1311	6010C	tclp	75 – 125	<20	150	600	1	Y	N
1A	Antimony	1312	6010C	splp	75 – 125	<20	10	40	1	Y	N
1A	Antimony	3050B (mod.)	6010C	ws, s	75 – 125	<20	1.5E03	6.0E03	1	Y	N
1A	Antimony	3050B (mod.)	6010C	t	75 – 125	<20	1.5E03	6.0E03	1	N	N
1A	Antimony	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.0E04	8.0E04	1	Y	N
1B	Antimony	200.2 (mod.)	200.8	w	70 – 130	<20	0.050	0.20	1	Y	Y
1B	Antimony	200.2 (mod.)	6020A	w	75 – 125	<20	0.050	0.20	1	Y	N
1B	Antimony	1311	6020A	tclp	75 – 125	<20	1.0	4.0	1	Y	N
1B	Antimony	1312	6020A	splp	75 – 125	<20	0.20	0.80	1	Y	N
1B	Antimony	3050B (mod.)	6020A	ws, s	75 – 125	<20	15	60	1	Y	N
1B	Antimony	3050B (mod.)	6020A	t	75 – 125	<20	15	60	1	N	N
1B	Antimony	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	500	2000	1	Y	N
1A	Arsenic	200.2 (mod.)	200.7	w	70 – 130	<20	10	40	1	Y	Y
1A	Arsenic	200.2 (mod.)	6010C	w	75 – 125	<20	10	40	1	Y	N
1A	Arsenic	1311	6010C	tclp	75 – 125	<20	100	400	1	Y	N
1A	Arsenic	1312	6010C	splp	75 – 125	<20	10	40	1	Y	N
1A	Arsenic	3050B (mod.)	6010C	ws, s	75 – 125	<20	1.0E03	4.0E03	1	Y	N
1A	Arsenic	3050B (mod.)	6010C	t	75 – 125	<20	1.0E03	4.0E03	1	N	N
1A	Arsenic	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.0E04	8.0E04	1	Y	N
1B	Arsenic	200.2 (mod.)	200.8	w	70 – 130	<20	0.050	0.20	1	Y	Y
1B	Arsenic	200.2 (mod.)	6020A	w	75 – 125	<20	0.050	0.20	1	Y	N
1B	Arsenic	1311	6020A	tclp	75 – 125	<20	5.0	20	1	Y	N
1B	Arsenic	1312	6020A	splp	75 – 125	<20	0.25	1.0	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1B	Arsenic	3050B (mod.)	6020A	ws, s	75 – 125	<20	15	60	1	Y	N
1B	Arsenic	3050B (mod.)	6020A	t	75 – 125	<20	15	60	1	N	N
1B	Arsenic	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	200	800	1	Y	N
1A	Barium	200.2 (mod.)	200.7	w	70 – 130	<20	1.0	4.0	1	Y	Y
1A	Barium	200.2 (mod.)	6010C	w	75 – 125	<20	1.0	4.0	1	Y	N
1A	Barium	1311	6010C	tclp	75 – 125	<20	2.5E03	1.0E04	1	Y	N
1A	Barium	1312	6010C	splp	75 – 125	<20	900	3600	1	Y	N
1A	Barium	3050B (mod.)	6010C	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Barium	3050B (mod.)	6010C	t	75 – 125	<20	100	400	1	N	N
1A	Barium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.4E03	9.6E03	1	Y	N
1B	Barium	200.2 (mod.)	200.8	w	70 – 130	<20	0.20	0.80	1	Y	Y
1B	Barium	200.2 (mod.)	6020A	w	75 – 125	<20	0.20	0.80	1	Y	N
1B	Barium	1311	6020A	tclp	75 – 125	<20	10	40	1	Y	N
1B	Barium	1312	6020A	splp	75 – 125	<20	0.20	0.80	1	Y	N
1B	Barium	3050B (mod.)	6020A	ws, s	75 – 125	<20	50	200	1	Y	N
1B	Barium	3050B (mod.)	6020A	t	75 – 125	<20	50	200	1	N	N
1B	Barium	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	1.5E04	6.0E04	1	Y	N
1A	Beryllium	200.2 (mod.)	200.7	w	70 – 130	<20	0.40	1.6	1	Y	Y
1A	Beryllium	200.2 (mod.)	6010C	w	75 – 125	<20	0.40	1.6	1	Y	N
1A	Beryllium	1311	6010C	tclp	75 – 125	<20	4.0	16	1	Y	N
1A	Beryllium	1312	6010C	splp	75 – 125	<20	0.40	1.6	1	Y	N
1A	Beryllium	3050B (mod)	6010C	ws, s	75 – 125	<20	40	160	1	Y	N
1A	Beryllium	3050B (mod.)	6010C	t	75 – 125	<20	40	160	1	N	N
1A	Beryllium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	40	160	1	Y	N
1B	Beryllium	200.2 (mod.)	200.8	w	70 – 130	<20	0.010	0.040	1	Y	Y
1B	Beryllium	200.2 (mod.)	6020A	w	75 – 125	<20	0.010	0.040	1	Y	N
1B	Beryllium	1311	6020A	tclp	75 – 125	<20	0.25	1.0	1	Y	N
1B	Beryllium	1312	6020A	splp	75 – 125	<20	0.020	0.080	1	Y	N
1B	Beryllium	3050B (mod)	6020A	ws, s	75 – 125	<20	5.0	20	1	Y	N
1B	Beryllium	3050B (mod.)	6020A	t	75 – 125	<20	5.0	20	1	N	N
1B	Beryllium	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	25	100	1	Y	N
1A	Boron	200.2 (mod.)	200.7	w	70 – 130	<20	15	60	1	Y	Y
1A	Boron	200.2 (mod.)	6010C	w	75 – 125	<20	15	60	1	Y	N
1A	Boron	1311	6010C	tclp	75 – 125	<20	400	1600	1	Y	N
1A	Boron	1312	6010C	splp	75 – 125	<20	1.2E03	4.8E03	1	Y	N
1A	Boron	3050B (mod)	6010C	ws, s	75 – 125	<20	4.0E03	1.6E04	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1A	Boron	3050B (mod.)	6010C	t	75 – 125	<20	4.0E03	1.6E04	1	Y	N
1B	Boron	200.2 (mod.)	200.8	w	70 – 130	<20	2.0	8.0	1	Y	Y
1A	Cadmium	200.2 (mod.)	200.7	w	70 – 130	<20	1.0	4.0	1	Y	Y
1A	Cadmium	200.2 (mod.)	6010C	w	75 – 125	<20	1.0	4.0	1	Y	N
1A	Cadmium	1311	6010C	tc1p	75 – 125	<20	10	40	1	Y	N
1A	Cadmium	1312	6010C	splp	75 – 125	<20	6.0	24	1	Y	N
1A	Cadmium	3050B (mod)	6010C	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Cadmium	3050B (mod.)	6010C	t	75 – 125	<20	100	400	1	N	N
1A	Cadmium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	1.0E03	4.0E03	1	Y	N
1B	Cadmium	200.2 (mod.)	200.8	w	70 – 130	<20	0.020	0.080	1	Y	Y
1B	Cadmium	200.2 (mod.)	6020A	w	75 – 125	<20	0.020	0.080	1	Y	N
1B	Cadmium	1311	6020A	tc1p	75 – 125	<20	0.50	2.0	1	Y	N
1B	Cadmium	1312	6020A	splp	75 – 125	<20	1.0	4.0	1	Y	N
1B	Cadmium	3050B (mod)	6020A	ws, s	75 – 125	<20	10	40	1	Y	N
1B	Cadmium	3050B (mod.)	6020A	t	75 – 125	<20	10	40	1	N	N
1B	Cadmium	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Calcium	200.2 (mod.)	200.7	w	70 – 130	<20	75	300	1	Y	Y
1A	Calcium	200.2 (mod.)	6010C	w	75 – 125	<20	75	300	1	Y	N
1A	Calcium	1311	6010C	tc1p	75 – 125	<20	750	3000	1	Y	N
1A	Calcium	1312	6010C	splp	75 – 125	<20	650	2600	1	Y	N
1A	Calcium	3050B (mod)	6010C	ws, s	75 – 125	<20	1.0E04	4.0E04	1	Y	N
1A	Calcium	3050B (mod.)	6010C	t	75 – 125	<20	1.0E04	4.0E04	1	N	N
1A	Calcium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	1.03E05	4.12E05	1	Y	N
1A	Chromium	200.2 (mod.)	200.7	w	70 – 130	<20	1.0	4.0	1	Y	Y
1A	Chromium	200.2 (mod.)	6010C	w	75 – 125	<20	1.0	4.0	1	Y	N
1A	Chromium	1311	6010C	tc1p	75 – 125	<20	30	120	1	Y	N
1A	Chromium	1312	6010C	splp	75 – 125	<20	7.0	28	1	Y	N
1A	Chromium	3050B (mod)	6010C	ws, s	75 – 125	<20	150	600	1	Y	N
1A	Chromium	3050B (mod.)	6010C	t	75 – 125	<20	150	600	1	N	N
1A	Chromium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	4.0E03	1.6E04	1	Y	N
1B	Chromium	200.2 (mod.)	200.8	w	70 – 130	<20	0.40	1.6	1	Y	Y
1B	Chromium	200.2 (mod.)	6020A	w	75 – 125	<20	0.40	1.6	1	Y	N
1B	Chromium	1311	6020A	tc1p	75 – 125	<20	10	40	1	Y	N
1B	Chromium	1312	6020A	splp	75 – 125	<20	25	100	1	Y	N
1B	Chromium	3050B (mod)	6020A	ws, s	75 – 125	<20	250	1000	1	Y	N
1B	Chromium	3050B (mod.)	6020A	t	75 - 125	<20	250	1000	1	N	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1B	Chromium	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	6.0E03	2.4E04	1	Y	N
1A	Cobalt	200.2 (mod.)	200.7	w	70 – 130	<20	1.0	4.0	1	Y	Y
1A	Cobalt	200.2 (mod.)	6010C	w	75 – 125	<20	1.0	4.0	1	Y	N
1A	Cobalt	1311	6010C	tclp	75 – 125	<20	20	80	1	Y	N
1A	Cobalt	1312	6010C	splp	75 – 125	<20	12	48	1	Y	N
1A	Cobalt	3050B (mod)	6010C	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Cobalt	3050B (mod.)	6010C	t	75 – 125	<20	100	400	1	N	N
1B	Cobalt	200.2 (mod.)	200.8	w	70 – 130	<20	0.020	0.080	1	Y	Y
1B	Cobalt	200.2 (mod.)	6020A	w	75 – 125	<20	0.020	0.080	1	Y	N
1B	Cobalt	1311	6020A	tclp	75 – 125	<20	1.0	4.0	1	Y	N
1B	Cobalt	1312	6020A	splp	75 – 125	<20	1.0	4.0	1	Y	N
1B	Cobalt	3050B (mod)	6020A	ws, s	75 – 125	<20	10	40	1	Y	N
1B	Cobalt	3050B (mod.)	6020A	t	75 – 125	<20	10	40	1	N	N
1A	Copper	200.2 (mod.)	200.7	w	70 – 130	<20	10	40	1	Y	Y
1A	Copper	200.2 (mod.)	6010C	w	75 – 125	<20	10	40	1	Y	N
1A	Copper	1311	6010C	tclp	75 – 125	<20	70	280	1	Y	N
1A	Copper	1312	6010C	splp	75 – 125	<20	7.0	28	1	Y	N
1A	Copper	3050B (mod)	6010C	ws, s	75 – 125	<20	700	2800	1	Y	N
1A	Copper	3050B (mod.)	6010C	t	75 – 125	<20	700	2800	1	N	N
1A	Copper	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.2E04	8.8E04	1	Y	N
1B	Copper	200.2 (mod.)	200.8	w	70 – 130	<20	0.40	0.80	1	Y	Y
1B	Copper	200.2 (mod.)	6020A	w	75 – 125	<20	0.40	0.80	1	Y	N
1B	Copper	1311	6020A	tclp	75 – 125	<20	10	40	1	Y	N
1B	Copper	1312	6020A	splp	75 – 125	<20	2.0	8.0	1	Y	N
1B	Copper	3050B (mod)	6020A	ws, s	75 – 125	<20	250	1000	1	Y	N
1B	Copper	3050B (mod.)	6020A	t	75 – 125	<20	250	1000	1	N	N
1B	Copper	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	1.0E03	4.0E03	1	Y	N
1A	Hardness	200.2 (mod.)	SM 2340 B	w	70 – 130	<20	350	1400	1	Y	N
1A	Iron	200.2 (mod.)	200.7	w	70 – 130	<20	30	120	1	Y	Y
1A	Iron	200.2 (mod.)	6010C	w	75 – 125	<20	30	120	1	Y	N
1A	Iron	1311	6010C	tclp	75 – 125	<20	300	1200	1	Y	N
1A	Iron	1312	6010C	splp	75 – 125	<20	50	200	1	Y	N
1A	Iron	3050B (mod)	6010C	ws, s	75 – 125	<20	3.0E03	1.2E04	1	Y	N
1A	Iron	3050B (mod.)	6010C	t	75 – 125	<20	3.0E03	1.2E04	1	N	N
1A	Iron	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.8E04	1.12E05	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1A	Lead	200.2 (mod.)	200.7	w	70 – 130	<20	4.0	16	1	Y	Y
1A	Lead	200.2 (mod.)	6010C	w	75 – 125	<20	4.0	16	1	Y	N
1A	Lead	1311	6010C	tclp	75 – 125	<20	50	200	1	Y	N
1A	Lead	1312	6010C	splp	75 – 125	<20	6.0	24	1	Y	N
1A	Lead	3050B (mod)	6010C	ws, s	75 – 125	<20	700	2800	1	Y	N
1A	Lead	3050B (mod.)	6010C	t	75 – 125	<20	700	2800	1	N	N
1A	Lead	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	1.2E04	4.8E04	1	Y	N
1B	Lead	200.2 (mod.)	200.8	w	70 – 130	<20	0.20	0.40	1	Y	Y
1B	Lead	200.2 (mod.)	6020A	w	75 – 125	<20	0.20	0.40	1	Y	N
1B	Lead	1311	6020A	tclp	75 – 125	<20	40	160	1	Y	N
1B	Lead	1312	6020A	splp	75 – 125	<20	1.0	4.0	1	Y	N
1B	Lead	3050B (mod)	6020A	ws, s	75 – 125	<20	100	400	1	Y	N
1B	Lead	3050B (mod.)	6020A	t	75 – 125	<20	100	400	1	N	N
1B	Lead	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	1.0E03	4.0E03	1	Y	N
1A	Lithium	200.2 (mod.)	200.7	w	70 – 130	<20	1.5	6.0	1	N	N
1B	Lithium	200.2 (mod.)	6010C	w	75 – 125	<20	1.5	6.0	1	N	N
1A	Magnesium	200.2 (mod.)	200.7	w	70 – 130	<20	40	160	1	Y	Y
1A	Magnesium	200.2 (mod.)	6010C	w	75 – 125	<20	40	160	1	Y	N
1A	Magnesium	1311	6010C	tclp	75 – 125	<20	400	1600	1	Y	N
1A	Magnesium	1312	6010C	splp	75 – 125	<20	40	160	1	Y	N
1A	Magnesium	3050B (mod)	6010C	ws, s	75 – 125	<20	4.0E03	1.6E04	1	Y	N
1A	Magnesium	3050B (mod.)	6010C	t	75 – 125	<20	4.0E03	1.6E04	1	N	N
1A	Magnesium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	4.4E04	1.76E05	1	Y	N
1A	Manganese	200.2 (mod.)	200.7	w	70 – 130	<20	1.0	4.0	1	Y	Y
1A	Manganese	200.2 (mod.)	6010C	w	75 – 125	<20	1.0	4.0	1	Y	N
1A	Manganese	1311	6010C	tclp	75 – 125	<20	5.0	20	1	Y	N
1A	Manganese	1312	6010C	splp	75 – 125	<20	7.0	28	1	Y	N
1A	Manganese	3050B (mod)	6010C	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Manganese	3050B (mod.)	6010C	t	75 – 125	<20	100	400	1	N	N
1A	Manganese	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	1.0E03	4.0E03	1	Y	N
1B	Manganese	200.2 (mod.)	200.8	w	70 – 130	<20	0.10	0.40	1	Y	Y
1B	Manganese	200.2 (mod.)	6020A	w	75 – 125	<20	0.10	0.40	1	Y	N
1B	Manganese	1311	6020A	tclp	75 – 125	<20	10	40	1	Y	N
1B	Manganese	1312	6020A	splp	75 – 125	<20	4.0	16	1	Y	N
1B	Manganese	3050B (mod)	6020A	ws, s	75 – 125	<20	50	200	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1B	Manganese	3050B (mod.)	6020A	t	75 – 125	<20	50	200	1	N	N
1B	Manganese	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	5.0E03	2.0E04	1	Y	N
1D	Mercury	1631E	1631E	w	80 – 120	<20	0.00010	0.00030	1	Y	N
1D	Mercury	1631E	1631E	splp	80 – 120	<20	0.0010	0.0030			
1F	Mercury	N/A	7473	s, ws	80 – 120	<20	0.60	2.4	1	N	N
1F	Mercury	N/A	7473	t	80 – 120	<20	2.0	8.0	1	N	N
1F	Mercury	N/A	7473	w	80 – 120	<20	0.10	0.30	1	N	N
1F	Mercury	N/A	7473	tcplp	80 – 120	<20	1.0	3.0	1	N	N
1A	Molybdenum	200.2 (mod.)	200.7	w	70 – 130	<20	1.0	4.0	1	Y	Y
1A	Molybdenum	200.2 (mod.)	6010C	w	75 – 125	<20	1.0	4.0	1	Y	N
1A	Molybdenum	1311	6010C	tcplp	75 – 125	<20	25	100	1	Y	N
1A	Molybdenum	1312	6010C	splp	75 – 125	<20	1.0	4.0	1	Y	N
1A	Molybdenum	3050B (mod)	6010C	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Molybdenum	3050B (mod.)	6010C	t	75 – 125	<20	100	400	1	N	N
1A	Molybdenum	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	800	3200	1	Y	N
1B	Molybdenum	200.2 (mod.)	200.8	w	70 – 130	<20	0.15	0.60	1	Y	Y
1B	Molybdenum	200.2 (mod.)	6020A	w	75 – 125	<20	0.15	0.60	1	Y	N
1B	Molybdenum	1311	6020A	tcplp	75 – 125	<20	1.5	6.0	1	Y	N
1B	Molybdenum	1312	6020A	splp	75 – 125	<20	1.0	4.0	1	Y	N
1B	Molybdenum	3050B (mod)	6020A	ws, s	75 – 125	<20	125	500	1	Y	N
1B	Molybdenum	3050B (mod.)	6020A	t	75 – 125	<20	125	500	1	N	N
1B	Molybdenum	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	250	1000	1	Y	N
1A	Nickel	200.2 (mod.)	200.7	w	70 – 130	<20	2.0	8.0	1	Y	Y
1A	Nickel	200.2 (mod.)	6010C	w	75 – 125	<20	2.0	8.0	1	Y	N
1A	Nickel	1311	6010C	tcplp	75 – 125	<20	25	100	1	Y	N
1A	Nickel	1312	6010C	splp	75 – 125	<20	12	48	1	Y	N
1A	Nickel	3050B (mod)	6010C	ws, s	75 – 125	<20	200	800	1	Y	N
1A	Nickel	3050B (mod.)	6010C	t	75 – 125	<20	200	800	1	N	N
1A	Nickel	DEP SOP MT-063	6010C	v	75 – 125	<20	2.0E03	8.0E03	1	Y	N
1B	Nickel	200.2 (mod.)	200.8	w	70 – 130	<20	0.50	2.0	1	Y	Y
1B	Nickel	200.2 (mod.)	6020A	w	75 – 125	<20	0.50	2.0	1	Y	N
1B	Nickel	1311	6020A	tcplp	75 – 125	<20	30	120	1	Y	N
1B	Nickel	1312	6020A	splp	75 – 125	<20	15	60	1	Y	N
1B	Nickel	3050B (mod)	6020A	ws, s	75 – 125	<20	375	1500	1	Y	N
1B	Nickel	3050B (mod.)	6020A	t	75 – 125	<20	375	1500	1	N	N
1B	Nickel	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	1.0E04	4.0E04	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1A	Potassium	200.2 (mod.)	200.7	w	70 – 130	<20	300	1200	1	Y	Y
1A	Potassium	200.2 (mod.)	6010C	w	75 – 125	<20	300	1200	1	Y	N
1A	Potassium	1311	6010C	tclp	75 – 125	<20	3.0E03	1.2E04	1	Y	N
1A	Potassium	1312	6010C	splp	75 – 125	<20	1.5E03	6.0E03	1	Y	N
1A	Potassium	3050B (mod)	6010C	ws, s	75 – 125	<20	3.0E04	1.2E05	1	Y	N
1A	Potassium	3050B (mod.)	6010C	t	75 – 125	<20	3.0E04	1.2E05	1	N	N
1A	Potassium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	4.0E04	1.6E05	1	Y	N
1A	Selenium	200.2 (mod.)	200.7	w	70 – 130	<20	20	80	1	Y	Y
1A	Selenium	200.2 (mod.)	6010C	w	75 – 125	<20	20	80	1	Y	N
1A	Selenium	1311	6010C	tclp	75 – 125	<20	150	600	1	Y	N
1A	Selenium	1312	6010C	splp	75 – 125	<20	15	60	1	Y	N
1A	Selenium	3050B (mod)	6010C	ws, s	75 – 125	<20	1.5E03	6.0E03	1	Y	N
1A	Selenium	3050B (mod.)	6010C	t	75 – 125	<20	1.5E03	6.0E03	1	N	N
1A	Selenium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.0E04	8.0E04	1	Y	N
1B	Selenium	200.2 (mod.)	200.8	w	70 – 130	<20	0.20	0.80	1	Y	Y
1B	Selenium	200.2 (mod.)	6020A	w	75 – 125	<20	0.20	0.80	1	Y	N
1B	Selenium	1311	6020A	tclp	75 – 125	<20	5.0	20	1	Y	N
1B	Selenium	1312	6020A	splp	75 – 125	<20	0.10	0.40	1	Y	N
1B	Selenium	3050B (mod)	6020A	ws, s	75 – 125	<20	100	400	1	Y	N
1B	Selenium	3050B (mod.)	6020A	t	75 – 125	<20	100	400	1	N	N
1B	Selenium	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	500	2000	1	Y	N
1A	Silica	N/A	200.7	w	70 – 130	<20	100	400	1	Y	Y
1A	Silver	200.2 (mod.)	200.7	w	70 – 130	<20	3.0	12	1	Y	Y
1A	Silver	200.2 (mod.)	6010C	w	75 – 125	<20	3.0	12	1	Y	N
1A	Silver	1311	6010C	tclp	75 – 125	<20	20	80	1	Y	N
1A	Silver	1312	6010C	splp	75 – 125	<20	2.0	8.0	1	Y	N
1A	Silver	3050B (mod)	6010C	ws, s	75 – 125	<20	200	800	1	Y	N
1A	Silver	3050B (mod.)	6010C	t	75 – 125	<20	200	800	1	N	N
1A	Silver	DEP SOP MT-063	6010C	ws, s	74 – 126	<20	2.0E03	8.0E03	1	Y	N
1B	Silver	200.2 (mod.)	200.8	w	70 – 130	<20	0.010	0.040	1	Y	Y
1B	Silver	200.2 (mod.)	6020A	w	75 – 125	<20	0.010	0.040	1	Y	N
1B	Silver	1311	6020A	tclp	75 – 125	<20	2.5	10	1	Y	N
1B	Silver	1312	6020A	splp	75 – 125	<20	0.020	0.080	1	Y	N
1B	Silver	3050B (mod)	6020A	ws, s	75 – 125	<20	3.75	15	1	Y	N
1B	Silver	3050B (mod.)	6020A	t	75 – 125	<20	3.75	15	1	N	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1B	Silver	DEP SOP MT-063	6020A	ws, s	74 – 126	<20	25	100	1	Y	N
1A	Sodium	200.2 (mod.)	200.7	w	70 – 130	<20	500	2000	1	Y	Y
1A	Sodium	200.2 (mod.)	6010C	w	75 – 125	<20	500	2000	1	Y	N
1A	Sodium	1311	6010C	tc1p	75 – 125	<20	1.0E04	4.0E04	1	Y	N
1A	Sodium	1312	6010C	splp	75 – 125	<20	5.0E03	2.0E04	1	Y	N
1A	Sodium	3050B (mod)	6010C	ws, s	75 – 125	<20	5.0E04	2.0E05	1	Y	N
1A	Sodium	3050B (mod.)	6010C	t	75 – 125	<20	5.0E04	2.0E05	1	N	N
1A	Sodium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	6.0E04	2.4E05	1	Y	N
1A	Strontium	200.2 (mod.)	200.7	w	70 – 130	<20	2.0	8.0	1	Y	Y
1A	Strontium	200.2 (mod.)	6010C	w	75 – 125	<20	2.0	8.0	1	Y	N
1A	Strontium	1311	6010C	tc1p	75 – 125	<20	800	3200	1	Y	N
1A	Strontium	1312	6010C	splp	75 – 125	<20	80	320	1	Y	N
1A	Strontium	3050B (mod)	6010C	ws, s	75 – 125	<20	300	1200	1	Y	N
1A	Strontium	3050B (mod.)	6010C	t	75 – 125	<20	300	1200	1	N	N
1A	Strontium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	1.6E04	6.4E04	1	Y	N
1B	Strontium	200.2 (mod.)	200.8	w	70 – 130	<20	0.20	0.80	1	N	Y
1A	Thallium	200.2 (mod.)	200.7	w	70 – 130	<20	5.0	20	1	Y	Y
1A	Thallium	200.2 (mod.)	6010C	w	75 – 125	<20	5.0	20	1	Y	N
1A	Thallium	1311	6010C	tc1p	75 – 125	<20	100	400	1	Y	N
1A	Thallium	1312	6010C	splp	75 – 125	<20	10	40	1	Y	N
1A	Thallium	3050B (mod)	6010C	ws, s	75 – 125	<20	1.0E03	4.0E03	1	Y	N
1A	Thallium	3050B (mod.)	6010C	t	75 – 125	<20	1.0E03	4.0E03	1	N	N
1A	Thallium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	2.0E04	8.0E04	1	Y	N
1B	Thallium	200.2 (mod.)	200.8	w	70 – 130	<20	0.10	0.40	1	Y	Y
1B	Thallium	200.2 (mod.)	6020A	w	75 – 125	<20	0.10	0.40	1	Y	N
1B	Thallium	1311	6020A	tc1p	75 – 125	<20	1.0	4.0	1	Y	N
1B	Thallium	1312	6020A	splp	75 – 125	<20	0.10	0.40	1	Y	N
1B	Thallium	3050B (mod)	6020A	ws, s	75 – 125	<20	50	200	1	Y	N
1B	Thallium	3050B (mod.)	6020A	t	75 – 125	<20	50	200	1	N	N
1B	Thallium	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Tin	200.2 (mod.)	200.7	w	70 – 130	<20	3.0	12	1	Y	Y
1A	Tin	200.2 (mod.)	6010C	w	75 – 125	<20	3.0	12	1	Y	N
1A	Tin	1311	6010C	tc1p	75 – 125	<20	50	200	1	Y	N
1A	Tin	1312	6010C	splp	75 – 125	<20	3.0	12	1	Y	N
1A	Tin	3050B (mod)	6010C	ws, s	75 – 125	<20	2.5E03	1.0E04	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Metals

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn % RPD	LOD (ppb)	LOQ (ppb)	Clean Up	NELAC	NPDES
1A	Tin	3050B (mod.)	6010C	t	75 – 125	<20	2.5E03	1.0E04	1	N	N
1A	Tin	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	1.0E04	4.0E04	1	Y	N
1A	Titanium	200.2 (mod.)	200.7	w	70 – 130	<20	0.75	3.0	1	Y	Y
1A	Titanium	200.2 (mod.)	6010C	w	75 – 125	<20	0.75	3.0	1	Y	N
1A	Titanium	1311	6010C	tclp	75 – 125	<20	5.0	20	1	Y	N
1A	Titanium	1312	6010C	splp	75 – 125	<20	1.5	6.0	1	Y	N
1A	Titanium	3050B (mod)	6010C	ws, s	75 – 125	<20	100	400	1	Y	N
1A	Titanium	3050B (mod.)	6010C	t	75 – 125	<20	100	400	1	N	N
1A	Titanium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	4.0E03	1.6E04	1	Y	N
1A	Vanadium	200.2 (mod.)	200.7	w	70 – 130	<20	2.0	8.0	1	Y	Y
1A	Vanadium	200.2 (mod.)	6010C	w	75 – 125	<20	2.0	8.0	1	Y	N
1A	Vanadium	1311	6010C	tclp	75 – 125	<20	20	80	1	Y	N
1A	Vanadium	1312	6010C	splp	75 – 125	<20	2.0	8.0	1	Y	N
1A	Vanadium	3050B (mod)	6010C	ws, s	75 – 125	<20	200	800	1	Y	N
1A	Vanadium	3050B (mod.)	6010C	t	75 – 125	<20	200	800	1	N	N
1A	Vanadium	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	800	3200	1	Y	N
1A	Zinc	200.2 (mod.)	200.7	w	70 – 130	<20	5.0	20	1	Y	Y
1A	Zinc	200.2 (mod.)	6010C	w	75 – 125	<20	5.0	20	1	Y	N
1A	Zinc	1311	6010C	tclp	75 – 125	<20	500	2000	1	Y	N
1A	Zinc	1312	6010C	splp	75 – 125	<20	1.4E03	5.6E03	1	Y	N
1A	Zinc	3050B (mod)	6010C	ws, s	75 – 125	<20	2.0E03	8.0E03	1	Y	N
1A	Zinc	3050B (mod.)	6010C	t	75 – 125	<20	2.0E03	8.0E03	1	N	N
1A	Zinc	DEP SOP MT-063	6010C	ws, s	75 – 125	<20	6.0E03	2.4E04	1	Y	N
1B	Zinc	200.2 (mod.)	200.8	w	70 – 130	<20	7.0	28	1	Y	Y
1B	Zinc	200.2 (mod.)	6020A	w	75 – 125	<20	7.0	28	1	Y	N
1B	Zinc	1311	6020A	tclp	75 – 125	<20	50	200	1	Y	N
1B	Zinc	1312	6020A	splp	75 – 125	<20	5.0	20	1	Y	N
1B	Zinc	3050B (mod)	6020A	ws, s	75 – 125	<20	5.0E03	2.0E04	1	Y	N
1B	Zinc	3050B (mod.)	6020A	t	75 – 125	<20	5.0E03	2.0E04	1	N	N
1B	Zinc	DEP SOP MT-063	6020A	ws, s	75 – 125	<20	5.0E03	2.0E04	1	Y	N
1B	Uranium	200.2 (mod.)	200.8	w	70 – 130	<20	0.0050	0.020	1	N	Y

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Nutrients/Wet Chemistry

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
2C	Alkalinity	n/a	SM 2320 B-2011	w	93 – 102	<3.63	650	2500	1	Y	Y
2B	Ammonia	n/a	350.1	w	90 – 110	<20	2	5	1	Y	Y
2E	Chloride	n/a	300.0	w	90 – 110	<20	200	500	1	Y	Y
2J	Color (True)	n/a	SOP NU-094 (in-house)	w	90 – 110	<20	2.0 PCU	6 PCU	1	Y	N
2C	Fluoride	n/a	SM 4500-F-C-2011	w	93 – 104	<2.40	25	100	1	Y	N
2A	Nitrate-Nitrite	n/a	353.2	w	90 – 110	<20	3	10	1	Y	Y
2J	Nitrite	n/a	353.2	w	90 – 110	<20	2	5	1	Y	Y
2E	Nitrate	n/a	300.0	w	90 – 110	<20	50	150	1	N	N
2A/2J	Nitrate (by calculation)	n/a	353.2	w	90 – 110	<20	4	10	1	Y	Y
2B	O-Phosphate	n/a	365.1	w	90 – 110	<20	4	10	1	Y	Y
2G	Nitrogen (Total and Dissolved)	n/a	ASTM D8083-16	w	85 – 115	<20	20	50	1	Y	N
2G	Organic Carbon (Total and Dissolved)	n/a	SM 5310 B-2014	w	85 – 115	<20	500	1000	1	Y	Y
2C	pH	n/a	SM 4500-H+ B-2011	w	n/a	<0.1 units	n/a	n/a	1	N	N
2B / 2J	Phosphorous/Total	365.1	365.1	w	90 – 110	<20	2	5	1	Y	Y
2D	Residue, Filterable (TDS)	n/a	SM 2540 C-2015	w	85 – 115	<10	15000	25000	1	Y	Y
2D	Residue Non-Filterable (TSS)	n/a	SM 2540 D-2015	w	85 – 115	<10	2000	10000	1	Y	Y
2D	Residue, Total (TS)	n/a	SM 2540 B-2015	w	85 – 115	<10	15000	25000	1	N	N
2C	Specific Conductance	n/a	120.1	w	n/a	<20	2umhos / cm	8umhos / cm	1	Y	Y
2E	Sulfate	n/a	300.0	w	90 – 110	<20	200	500	1	Y	Y

Table 5.1

Nutrients/Wet Chemistry

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
2J	Total Kjeldahl Nitrogen	351.2	351.2	w	90 – 110	<20	80	200	1	Y	Y
2C	Turbidity	n/a	180.1	w	90 – 110	<20	0.10 NTU	1.0 NTU	1	Y	Y

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	Acetone	5035	8260D	s	70 – 130	<30	10	40	1	Y	N
3	Acetone	624.1	624.1	w	70 – 130	<30	5.0	20	1	Y	Y
3	Acetone	5030	8260D	w	70 – 130	<30	5.0	20	1	Y	N
3	Acetone	5030	8260D	ws	70 – 130	<30	500	2000	1	Y	N
3	Acrolein	5035	8260D	w	70 – 130	<30	1.0	4.0	1	Y	N
3	Acrolein	624.1	624.1	w	70 – 130	<30	1.0	4.0	1	Y	Y
3	Acrylonitrile	5035	8260D	w	70 – 130	<30	1.0	4.0	1	Y	N
3	Acrylonitrile	624.1	624.1	w	70 – 130	<30	1.0	4.0	1	Y	Y
3	Benzene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Benzene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Benzene	5030, 1311-12	8260D	w, tcip, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Benzene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Bromodichloromethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Bromodichloromethane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Bromodichloromethane	5030, 1311-12	8260D	w	70 – 130	<30	0.20	0.80	1	Y	N
3	Bromodichloromethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Bromoform	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Bromoform	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Bromoform	5030, 1311-12	8260D	w, tcip, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	Bromoform	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Bromomethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Bromomethane	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Bromomethane	5030, 1311-12	8260D	w, tcip, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	Bromomethane	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N
3	2-Butanone (MEK)	5035	8260D	s	70 – 130	<30	10	40	1	Y	N
3	2-Butanone (MEK)	624.1	624.1	w	70 – 130	<30	5.0	20	1	Y	Y
3	2-Butanone (MEK)	5030	8260D	w, tcip, splp	70 – 130	<30	5.0	20	1	Y	N
3	2-Butanone (MEK)	5030	8260D	ws	70 – 130	<30	500	2000	1	Y	N
3	Carbon disulfide	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Carbon disulfide	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Carbon disulfide	5030	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	Carbon disulfide	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Carbon tetrachloride	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Carbon tetrachloride	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Carbon tetrachloride	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Carbon tetrachloride	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Chlorobenzene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Chlorobenzene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Chlorobenzene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Chlorobenzene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Chloroethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Chloroethane	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Chloroethane	5030, 1311-12	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	Chloroethane	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N
3	2-Chloroethyl vinyl ether	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	2-Chloroethyl vinyl ether	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	2-Chloroethyl vinyl ether	5030, 1311-12	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	2-Chloroethyl vinyl ether	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Chloroform	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Chloroform	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Chloroform	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Chloroform	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Chloromethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Chloromethane	624.1	624.1	w	70 – 130	<30	2.0	8.0	1	Y	Y
3	Chloromethane	5030, 1311-12	8260D	w	70 – 130	<30	2.0	8.0	1	Y	N
3	Chloromethane	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N
3	Chloropicrin	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	o-Chlorotoluene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	o-Chlorotoluene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	o-Chlorotoluene	5030, 1311-12	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	o-Chlorotoluene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	Dibromochloromethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Dibromochloromethane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Dibromochloromethane	5030	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Dibromochloromethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,2-Dibromo-3-chloropropane	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	1,2-Dibromoethane	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	1,2-Dichlorobenzene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,2-Dichlorobenzene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	1,2-Dichlorobenzene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	1,2-Dichlorobenzene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,3-Dichlorobenzene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,3-Dichlorobenzene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	1,3-Dichlorobenzene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	1,3-Dichlorobenzene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,4-Dichlorobenzene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,4-Dichlorobenzene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	1,4-Dichlorobenzene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	1,4-Dichlorobenzene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Dichlorodifluoromethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Dichlorodifluoromethane	5030	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	Dichlorodifluoromethane	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N
3	1,1-Dichloroethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,1-Dichloroethane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	1,1-Dichloroethane	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	1,1-Dichloroethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,2-Dichloroethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,2-Dichloroethane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	1,2-Dichloroethane	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	1,2-Dichloroethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,1-Dichloroethene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,1-Dichloroethene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	1,1-Dichloroethene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	1,1-Dichloroethene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	cis-1,2-Dichloroethene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	cis-1,2-Dichloroethene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	cis-1,2-Dichloroethene	5030	8260D	w	70 – 130	<30	0.20	0.80	1	Y	N
3	cis-1,2-Dichloroethene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	trans-1,2-Dichloroethene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	trans-1,2-Dichloroethene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	trans-1,2-Dichloroethene	5030, 1311-12	8260D	w	70 – 130	<30	0.20	0.80	1	Y	N
3	trans-1,2-Dichloroethene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,2-Dichloropropane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,2-Dichloropropane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	1,2-Dichloropropane	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	1,2-Dichloropropane	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	1,2-Dichloropropane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	cis-1,3-Dichloropropene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	cis-1,3-Dichloropropene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	cis-1,3-Dichloropropene	5030, 1311-12	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	cis-1,3-Dichloropropene	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	cis-1,3-Dichloropropene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	trans-1,3-Dichloropropene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	trans-1,3-Dichloropropene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	trans-1,3-Dichloropropene	5030, 1311-12	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	trans-1,3-Dichloropropene	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	trans-1,3-Dichloropropene	5035	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Ethylbenzene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Ethylbenzene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Ethylbenzene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Ethylbenzene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	2-Hexanone	5035	8260D	s	70 – 130	<30	10	40	1	Y	N
3	2-Hexanone	624.1	624.1	w	70 – 130	<30	5.0	20	1	Y	Y
3	2-Hexanone	5030	8260D	w	70 – 130	<30	5.0	20	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	2-Hexanone	5030	8260D	ws	70 – 130	<30	500	2000	1	Y	N
3	Isopropylbenzene	5030	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	Isopropylbenzene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Methylene chloride	5035	8260D	s	70 – 130	<30	10	40	1	Y	N
3	Methylene chloride	624.1	624.1	w	70 – 130	<30	1.0	4.0	1	Y	Y
3	Methylene chloride	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	1.0	4.0	1	Y	N
3	Methylene chloride	5030	8260D	ws	70 – 130	<30	200	800	1	Y	N
3	4-Methyl-2-pentanone	5035	8260D	s	70 – 130	<30	10	40	1	Y	N
3	4-Methyl-2-pentanone	624.1	624.1	w	70 – 130	<30	3.0	12	1	Y	Y
3	4-Methyl-2-pentanone	5030	8260D	w	70 – 130	<30	3.0	12	1	Y	N
3	4-Methyl-2-pentanone	5030	8260D	ws	70 – 130	<30	500	2000	1	Y	N
3	Methyl-t-butyl ether	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Methyl-t-butyl ether	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Methyl-t-butyl ether	5030	8260D	w	70 – 130	<30	0.20	0.80	1	Y	N
3	Methyl-t-butyl ether	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Styrene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Styrene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Styrene	5030	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	Styrene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Tetrachloroethene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Tetrachloroethene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Tetrachloroethene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Tetrachloroethene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,1,2,2-Tetrachloroethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,1,2,2-Tetrachloroethane	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	1,1,2,2-Tetrachloroethane	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	1,1,2,2-Tetrachloroethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	Toluene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Toluene	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Toluene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	Toluene	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	Trichloroethene	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Trichloroethene	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Trichloroethene	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Trichloroethene	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,1,1-Trichloroethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,1,1-Trichloroethane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	1,1,1-Trichloroethane	5030	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	1,1,1-Trichloroethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,1,2-Trichloroethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	1,1,2-Trichloroethane	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	1,1,2-Trichloroethane	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	1,1,2-Trichloroethane	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	1,2,3-Trichloropropane	5030	8260D (SIM)	w	70 – 130	<30	0.0030	0.012	1	Y	N
3	1,2,4-Trimethylbenzene	5030	8260D	w	70 – 130	<30	0.50	2.0	1	N	N
3	1,3,5-Trimethylbenzene	5030	8260D	w	70 – 130	<30	0.50	2.0	1	N	N
3	Trichlorofluoromethane	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Trichlorofluoromethane	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	Trichlorofluoromethane	5030, 1311-12	8260D	w	70 – 130	<30	0.50	2.0	1	Y	N
3	Trichlorofluoromethane	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N
3	Vinyl chloride	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	Vinyl chloride	624.1	624.1	w	70 – 130	<30	0.20	0.80	1	Y	Y
3	Vinyl chloride	5030	8260D	w, tclp, splp	70 – 130	<30	0.20	0.80	1	Y	N
3	Vinyl chloride	5030	8260D	ws	70 – 130	<30	20	80	1	Y	N
3	o-Xylenes	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	o-Xylenes	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y
3	o-Xylenes	5030, 1311-12	8260D	w, tclp, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	o-Xylenes	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N
3	m,p-Xylenes	5035	8260D	s	70 – 130	<30	2.0	8.0	1	Y	N
3	m,p-Xylenes	624.1	624.1	w	70 – 130	<30	0.50	2.0	1	Y	Y

Volatile Organics (Purge & Trap GC-MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
3	m,p-Xylenes	5030, 1311-12	8260D	w, tc1p, splp	70 – 130	<30	0.50	2.0	1	Y	N
3	m,p-Xylenes	5030	8260D	ws	70 – 130	<30	50	200	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
4	4-Chloro-3-methylphenol	625.1	625.1	w	50 – 130	<40	0.30	1.2	1	Y	Y
4	4-Chloro-3-methylphenol	3510C	8270E	w	50 – 130	<40	0.30	1.2	1	Y	N
4	4-Chloro-3-methylphenol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	4-Chloro-3-methylphenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	2-Chlorophenol	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
4	2-Chlorophenol	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
4	2-Chlorophenol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	2-Chlorophenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	m,p-Cresols	625.1	625.1	w	50 – 130	<40	0.25	1.0	1	Y	Y
4	m,p-Cresols	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.25	1.0	1	Y	N
4	m,p-Cresols	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	m,p-Cresols	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	o-Cresol	625.1	625.1	w	50 – 130	<40	0.20	0.80	1	Y	Y
4	o-Cresol	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.20	0.80	1	Y	N
4	o-Cresol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	o-Cresol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	2,4-Dichlorophenol	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
4	2,4-Dichlorophenol	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
4	2,4-Dichlorophenol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	2,4-Dichlorophenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	2,6-Dichlorophenol	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
4	2,6-Dichlorophenol	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
4	2,6-Dichlorophenol	3550C	8270E	s	40 – 140	<40	83	330	1	Y	N
4	2,6-Dichlorophenol	3580C	8270E	ws	40 – 140	<40	25000	100000	1	Y	N
4	2,4-Dimethylphenol	625.1	625.1	w	50 – 130	<40	4.0	16	1	Y	Y
4	2,4-Dimethylphenol	3510C	8270E	w	50 – 130	<40	4.0	16	1	Y	N
4	2,4-Dimethylphenol	3550C	8270E	s	40 – 140	<40	130	530	1	Y	N
4	2,4-Dimethylphenol	3580C	8270E	ws	40 – 140	<40	40000	160000	1	Y	N
4	2,4-Dinitrophenol	625.1	625.1	w	30 – 160	<40	10	40	1	Y	Y
4	2,4-Dinitrophenol	3510C	8270E	w	30 – 160	<40	10	40	1	Y	N
4	2,4-Dinitrophenol	3550C	8270E	s	40 – 140	<40	130	530	1	Y	N
4	2,4-Dinitrophenol	3580C	8270E	ws	40 – 140	<40	40000	160000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
4	2-Methyl-4,6-dinitrophenol	625.1	625.1	w	50 – 150	<40	3.0	12	1	Y	Y
4	2-Methyl-4,6-dinitrophenol	3510C	8270E	w	50 – 150	<40	3.0	12	1	Y	N
4	2-Methyl-4,6-dinitrophenol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	2-Methyl-4,6-dinitrophenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	2-Nitrophenol	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
4	2-Nitrophenol	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
4	2-Nitrophenol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	2-Nitrophenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	4-Nitrophenol	625.1	625.1	w	15 – 110	<40	5.0	20	1	Y	Y
4	4-Nitrophenol	3510C	8270E	w	15 – 110	<40	5.0	20	1	Y	N
4	4-Nitrophenol	3550C	8270E	s	40 – 140	<50	150	600	1	Y	N
4	4-Nitrophenol	3580C	8270E	ws	40 – 140	<40	45000	180000	1	Y	N
4	Pentachlorophenol	625.1	625.1	w	50 – 130	<40	2.0	8.0	1	Y	Y
4	Pentachlorophenol	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	2.0	8.0	1	Y	N
4	Pentachlorophenol	3550C	8270E	s	40 – 140	<50	100	400	1	Y	N
4	Pentachlorophenol	3580C	8270E	ws	40 – 140	<40	30000	120000	1	Y	N
4	Phenol	625.1	625.1	w	15 – 110	<40	0.20	0.80	1	Y	Y
4	Phenol	3510C	8270E	w	15 – 110	<40	0.20	0.80	1	Y	N
4	Phenol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
4	Phenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	2,3,4,6-Tetrachlorophenol	625.1	625.1	w	50 – 130	<40	0.20	0.80	1	Y	Y
4	2,3,4,6-Tetrachlorophenol	3510C	8270E	w	50 – 130	<40	0.20	0.80	1	Y	N
4	2,3,4,6-Tetrachlorophenol	3550C	8270E	s	50 – 130	<40	67	270	1	Y	N
4	2,3,4,6-Tetrachlorophenol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
4	2,4,5-Trichlorophenol	625.1	625.1	w	15 – 110	<40	0.20	0.80	1	Y	Y
4	2,4,5-Trichlorophenol	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.20	0.80	1	Y	N
4	2,4,5-Trichlorophenol	3550C	8270E	s	40 – 140	<40	100	400	1	Y	N
4	2,4,5-Trichlorophenol	3580C	8270E	ws	40 – 140	<40	30000	120000	1	Y	N
4	2,4,6-Trichlorophenol	625.1	625.1	w	50 – 130	<40	0.50	2.0	1	Y	Y
4	2,4,6-Trichlorophenol	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.50	2.0	1	Y	N
4	2,4,6-Trichlorophenol	3550C	8270E	s	40 – 140	<40	100	400	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
4	2,4,6-Trichlorophenol	3580C	8270E	ws	40 – 140	<40	30000	120000	1	Y	N
5A	1,4-Dioxane	522	522	w	70 – 130	<30	0.040	0.16	1	Y	N
5A	Acenaphthene	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	Acenaphthene	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	Acenaphthene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	Acenaphthene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Acenaphthylene	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	Acenaphthylene	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	Acenaphthylene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	Acenaphthylene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Acetophenone	625.1	625.1	w	50 – 130	<40	0.10	0.40	2	Y	Y
5A	Acetophenone	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
5A	Acetophenone	3550C	8270E	s	40 – 140	<40	10	40	1	Y	N
5A	Acetophenone	3580C	8270E	ws	40 – 140	<40	3000	12000	1	Y	N
5A	2-Acetylaminofluorene	625.1	625.1	w	50 – 130	<40	0.80	3.2	1	Y	Y
5A	2-Acetylaminofluorene	3510C	8270E	w	50 – 130	<40	0.80	3.2	1	Y	N
5A	2-Acetylaminofluorene	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	2-Acetylaminofluorene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Aniline	625.1	625.1	w	30 – 130	<40	1.2	4.8	1	Y	Y
5A	Aniline	3510C	8270E	w	30 – 130	<40	1.2	48	1	Y	N
5A	Aniline	3550C	8270E	s	40 – 140	<40	100	400	1	Y	N
5A	Aniline	3580C	8270E	ws	40 – 140	<40	30000	120000	1	Y	N
5A	Anthracene	625.1	625.1	w	50 – 130	<40	0.060	0.24	2	Y	Y
5A	Anthracene	3510C	8270E	w	50 – 130	<40	0.060	0.24	2	Y	N
5A	Anthracene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	Anthracene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Azobenzene /1,2-Diphenylhydrazine	625.1	625.1	w	50 – 130	<40	0.060	0.24	1	Y	Y
5A	Azobenzene /1,2-Diphenylhydrazine	3510C	8270E	w	50 – 130	<40	0.060	0.24	1	Y	N
5A	Azobenzene /1,2-Diphenylhydrazine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	Azobenzene /1,2-Diphenylhydrazine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	Benzo(a)anthracene	625.1	625.1	w	50 – 130	<40	0.10	0.40	2	Y	Y
5A	Benzo(a)anthracene	3510C	8270E	w	50 – 130	<40	0.10	0.40	2	Y	N
5A	Benzo(a)anthracene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	Benzo(a)anthracene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Benzo(b)fluoranthene	625.1	625.1	w	50 – 130	<40	0.15	0.60	2	Y	Y
5A	Benzo(b)fluoranthene	3510C	8270E	w	50 – 130	<40	0.15	0.60	2	Y	N
5A	Benzo(b)fluoranthene	3550C	8270E	s	40 – 140	<40	25	100	2	Y	N
5A	Benzo(b)fluoranthene	3580C	8270E	ws	40 – 140	<40	7500	30000	1	Y	N
5A	Benzo(k)fluoranthene	625.1	625.1	w	50 – 130	<40	0.070	0.28	2	Y	Y
5A	Benzo(k)fluoranthene	3510C	8270E	w	50 – 130	<40	0.070	0.28	2	Y	N
5A	Benzo(k)fluoranthene	3550C	8270E	s	40 – 140	<40	50	200	2	Y	N
5A	Benzo(k)fluoranthene	3580C	8270E	ws	40 – 140	<40	15000	60000	1	Y	N
5A	Benzo(a)pyrene	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	Benzo(a)pyrene	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	Benzo(a)pyrene	3550C	8270E	s	40 – 140	<40	17	678	2	Y	N
5A	Benzo(a)pyrene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Benzo(g,h,i)perylene	625.1	625.1	w	50 – 130	<40	0.20	0.80	2	Y	Y
5A	Benzo(g,h,i)perylene	3510C	8270E	w	50 – 130	<40	0.20	0.80	2	Y	N
5A	Benzo(g,h,i)perylene	3550C	8270E	s	40 – 140	<40	33	130	2	Y	N
5A	Benzo(g,h,i)perylene	3580C	8270E	ws	40 – 140	<40	10000	40000	1	Y	N
5A	Benzidine	625.1	625.1	w	0 – 240	<40	10	40	1	Y	Y
5A	Benzidine	3510C	8270E	w	0 – 240	<40	10	40	1	Y	N
5A	Benzidine	3550C	8270E	s	20 – 140	<40	500	2000	1	Y	N
5A	Benzidine	3580C	8270E	ws	40 – 140	<40	150000	600000	1	Y	N
5A	Benzyl alcohol	625.1	625.1	w	50 – 130	<40	0.30	1.2	1	Y	Y
5A	Benzyl alcohol	3510C	8270E	w	50 – 130	<40	0.30	1.2	1	Y	N
5A	Benzyl alcohol	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	Benzyl alcohol	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Biphenyl	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	Biphenyl	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	Biphenyl	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	Biphenyl	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	4-Bromo phenyl phenyl ether	625.1	625.1	w	53 – 127	<40	0.070	0.28	1	Y	Y
5A	4-Bromo phenyl phenyl ether	3510C	8270E	w	53 – 127	<40	0.070	0.28	1	Y	N
5A	4-Bromo phenyl phenyl ether	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	4-Bromo phenyl phenyl ether	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Butyl benzyl phthalate	625.1	625.1	w	50 – 160	<40	0.50	2.0	1	Y	Y
5A	Butyl benzyl phthalate	3510C	8270E	w	50 – 160	<40	0.50	2.0	1	Y	N
5A	Butyl benzyl phthalate	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	Butyl benzyl phthalate	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Bis(2-Chloroethyl) ether	625.1	625.1	w	50 – 160	<40	0.20	0.80	1	Y	Y
5A	Bis(2-Chloroethyl) ether	3510C	8270E	w	50 – 160	<40	0.20	0.80	1	Y	N
5A	Bis(2-Chloroethyl) ether	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Bis(2-Chloroethyl) ether	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Bis(2-Chloroethoxy) methane	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	Y	Y
5A	Bis(2-Chloroethoxy) methane	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	Y	N
5A	Bis(2-Chloroethoxy) methane	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Bis(2-Chloroethoxy) methane	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Bis(2-Chloroisopropyl) ether	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	N	Y
5A	Bis(2-Chloroisopropyl) ether	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	N	N
5A	Bis(2-Chloroisopropyl) ether	3550C	8270E	s	40 – 160	<40	13	53	1	N	N
5A	Bis(2-Chloroisopropyl) ether	3580C	8270E	ws	40 – 140	<40	4000	16000	1	N	N
5A	Bis(2-Ethylhexyl) phthalate	625.1	625.1	w	50 – 160	<40	2.0	8.0	1	Y	Y
5A	Bis(2-Ethylhexyl) phthalate	3510C	8270E	w	50 – 160	<40	2.0	8.0	1	Y	N
5A	Bis(2-Ethylhexyl) phthalate	3550C	8270E	s	40 – 140	<40	300	1200	1	Y	N
5A	Bis(2-Ethylhexyl) phthalate	3580C	8270E	ws	40 – 140	<40	9000	360000	1	Y	N
5A	Bis(2-Ethylhexyl) adipate	625.1	625.1	w	50 – 160	<40	0.60	2.4	1	Y	Y
5A	Bis(2-Ethylhexyl) adipate	3510C	8270E	w	50 – 160	<40	0.60	2.4	1	Y	N
5A	Bis(2-Ethylhexyl) adipate	3550C	8270E	s	40 – 140	<40	53	210	1	Y	N
5A	Bis(2-Ethylhexyl) adipate	3580C	8270E	ws	40 – 140	<40	16000	64000	1	Y	N
5A	2-Chloronaphthalene	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	Y	Y
5A	2-Chloronaphthalene	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	Y	N

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	2-Chloronaphthalene	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	2-Chloronaphthalene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	4-Chlorophenyl phenyl ether	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	Y	Y
5A	4-Chlorophenyl phenyl ether	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	Y	N
5A	4-Chlorophenyl phenyl ether	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	4-Chlorophenyl phenyl ether	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Carbazole	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
5A	Carbazole	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
5A	Carbazole	3350C	8270E	s	40 – 140	<40	400	1600	1	Y	N
5A	Carbazole	3580C	8270E	ws	40 – 140	<40	120000	480000	1	Y	N
5A	Chrysene	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	Chrysene	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	Chrysene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	Chrysene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Dibenz(a, h)anthracene	625.1	625.1	w	50 – 130	<40	0.50	2.0	2	Y	Y
5A	Dibenz(a, h)anthracene	3510C	8270E	w	50 – 130	<40	0.50	2.0	2	Y	N
5A	Dibenz(a, h)anthracene	3550C	8270E	s	40 – 140	<40	67	270	2	Y	N
5A	Dibenz(a, h)anthracene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Dibenzofuran	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	Y	Y
5A	Dibenzofuran	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	Y	N
5A	Dibenzofuran	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Dibenzofuran	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Dibenzothiophene	625.1	625.1	w	50 – 130	<40	0.070	0.28	2	Y	Y
5A	Dibenzothiophene	3510C	8270E	w	50 – 130	<40	0.070	0.28	2	Y	N
5A	Dibenzothiophene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	Dibenzothiophene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	3,3'-Dichlorobenzidine	625.1	625.1	w	20 – 150	<40	4.0	16	1	Y	Y
5A	3,3'-Dichlorobenzidine	3510C	8270E	w	20 – 150	<40	4.0	16	1	Y	N
5A	3,3'-Dichlorobenzidine	3550C	8270E	s	40 – 140	<40	270	1100	1	Y	N
5A	3,3'-Dichlorobenzidine	3580C	8270E	ws	40 – 140	<40	80000	320000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	Diethyl phthalate	625.1	625.1	w	50 – 130	<40	1.5	6.0	1	Y	Y
5A	Diethyl phthalate	3510C	8270E	w	50 – 130	<40	1.5	6.0	1	Y	N
5A	Diethyl phthalate	3550C	8270E	s	40 – 140	<40	530	2100	1	Y	N
5A	Diethyl phthalate	3580C	8270E	ws	40 – 140	<40	160000	640000	1	Y	N
5A	p-Dimethylaminoazobenzene	625.1	625.1	w	50 – 130	<40	0.40	1.6	1	Y	Y
5A	p-Dimethylaminoazobenzene	3510C	8270E	w	50 – 130	<40	0.40	1.6	1	Y	N
5A	p-Dimethylaminoazobenzene	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	p-Dimethylaminoazobenzene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	7,12-Dimethylbenz(a) anthracene	625.1	625.1	w	50 – 130	<40	0.050	0.20	1	Y	Y
5A	7,12-Dimethylbenz(a) anthracene	3510C	8270E	w	50 – 130	<40	0.050	0.20	1	Y	N
5A	7,12-Dimethylbenz(a) anthracene	3550C	8270E	s	40 – 140	<40	50	200	1	Y	N
5A	7,12-Dimethylbenz(a) anthracene	3580C	8270E	ws	40 – 140	<40	15000	60000	1	Y	N
5A	2,6-Dimethylnaphthalene	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	2,6-Dimethylnaphthalene	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	2,6-Dimethylnaphthalene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	2,6-Dimethylnaphthalene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Dimethyl phthalate	625.1	625.1	w	50 – 130	<40	0.30	1.2	1	Y	Y
5A	Dimethyl phthalate	3510C	8270E	w	50 – 130	<40	0.30	1.2	1	Y	N
5A	Dimethyl phthalate	3550C	8270E	s	40 – 140	<40	43	173	1	Y	N
5A	Dimethyl phthalate	3580C	8270E	ws	40 – 140	<40	13000	52000	1	Y	N
5A	Di-n-butyl phthalate	625.1	625.1	w	50 – 130	<40	3.0	12	1	Y	Y
5A	Di-n-butyl phthalate	3510C	8270E	w	50 – 130	<40	3.0	12	1	Y	N
5A	Di-n-butyl phthalate	3550C	8270E	s	40 – 140	<40	83	330	1	Y	N
5A	Di-n-butyl phthalate	3580C	8270E	ws	40 – 140	<40	25000	100000	1	Y	N
5A	Di-n-octyl phthalate	625.1	625.1	w	50 – 130	<40	1.0	4.0	1	Y	Y
5A	Di-n-octyl phthalate	3510C	8270E	w	50 – 130	<40	1.0	4.0	1	Y	N
5A	Di-n-octyl phthalate	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	Di-n-octyl phthalate	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	1,3-Dinitrobenzene	625.1	625.1	w	50 – 130	<40	0.50	2.0	1	Y	Y
5A	1,3-Dinitrobenzene	3510C	8270E	w	50 – 130	<40	0.50	2.0	1	Y	N
5A	1,3-Dinitrobenzene	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	1,3-Dinitrobenzene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	2,4-Dinitrotoluene	625.1	625.1	w	50 – 130	<40	0.15	0.60	1	Y	Y
5A	2,4-Dinitrotoluene	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.15	0.60	1	Y	N
5A	2,4-Dinitrotoluene	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	2,4-Dinitrotoluene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	2,6-Dinitrotoluene	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
5A	2,6-Dinitrotoluene	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
5A	2,6-Dinitrotoluene	3550C	8270E	s	40 – 140	<40	33	130	1	Y	N
5A	2,6-Dinitrotoluene	3580C	8270E	ws	40 – 140	<40	10000	40000	1	Y	N
5A	Ethyl methanesulfonate	625.1	625.1	w	50 – 130	<40	2.5	10	1	Y	Y
5A	Ethyl methanesulfonate	3510C	8270E	w	50 – 130	<40	2.5	10	1	Y	N
5A	Ethyl methanesulfonate	3550C	8270E	s	40 – 140	<40	50	200	1	Y	N
5A	Ethyl methanesulfonate	3580C	8270E	ws	40 – 140	<40	15000	60000	1	Y	N
5A	Fluoranthene	625.1	625.1	w	50 – 130	<40	0.10	0.40	2	Y	Y
5A	Fluoranthene	3510C	8270E	w	50 – 130	<40	0.10	0.40	2	Y	N
5A	Fluoranthene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	Fluoranthene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Fluorene	625.1	625.1	w	50 – 130	<40	0.080	0.32	2	Y	Y
5A	Fluorene	3510C	8270E	w	50 – 130	<40	0.080	0.32	2	Y	N
5A	Fluorene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	Fluorene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Hexachlorobenzene	625.1	625.1	w	50 – 130	<40	0.060	0.24	1	Y	Y
5A	Hexachlorobenzene	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.060	0.24	1	Y	N
5A	Hexachlorobenzene	3550C	8270E	S	40 – 140	<40	17	67	1	Y	N
5A	Hexachlorobenzene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Hexachlorobutadiene	625.1	625.1	W	20 – 130	<40	0.070	0.28	1	Y	Y
5A	Hexachlorobutadiene	3510C, 1311-12	8270E	w, tclp, splp	20 – 130	<40	0.070	0.28	1	Y	N
5A	Hexachlorobutadiene	3550C	8270E	s	40 – 140	<40	83	330	1	Y	N
5A	Hexachlorobutadiene	3580C	8270E	ws	40 – 140	<40	25000	100000	1	Y	N
5A	Hexachlorocyclopentadiene	625.1	625.1	w	20 – 130	<40	0.20	0.80	1	Y	Y
5A	Hexachlorocyclopentadiene	3510C	8270E	w	20 – 130	<40	0.20	0.80	1	Y	N

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Presn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	Hexachlorocyclopentadiene	3550C	8270E	s	40 – 140	<40	83	330	1	Y	N
5A	Hexachlorocyclopentadiene	3580C	8270E	ws	40 – 140	<40	25000	100000	1	Y	N
5A	Hexachloroethane	625.1	625.1	w	40 – 130	<40	0.10	0.40	1	Y	Y
5A	Hexachloroethane	3510C, 1311-12	8270E	w, tclp, splp	40 – 130	<40	0.10	0.40	1	Y	N
5A	Hexachloroethane	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Hexachloroethane	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Hexachloropropene	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	Y	Y
5A	Hexachloropropene	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	Y	N
5A	Hexachloropropene	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Hexachloropropene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Indeno(1,2,3-cd)pyrene	625.1	625.1	w	50 – 130	<40	0.50	2.0	2	Y	Y
5A	Indeno(1,2,3-cd)pyrene	3510C	8270E	w	50 – 130	<40	0.50	2.0	2	Y	N
5A	Indeno(1,2,3-cd)pyrene	3550C	8270E	s	40 – 140	<40	67	270	2	Y	N
5A	Indeno(1,2,3-cd)pyrene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Isophorone	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
5A	Isophorone	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
5A	Isophorone	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Isophorone	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Isosafrole	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
5A	Isosafrole	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
5A	Isosafrole	3550C	8270E	s	40 – 140	<40	33	130	1	Y	N
5A	Isosafrole	3580C	8270E	ws	40 – 140	<40	10000	40000	1	Y	N
5A	3-Methylcholanthrene	625.1	625.1	w	50 – 130	<40	0.60	1.6	1	Y	Y
5A	3-Methylcholanthrene	3510C	8270E	w	50 – 130	<40	0.60	1.6	1	Y	N
5A	3-Methylcholanthrene	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	3-Methylcholanthrene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	1-Methylnaphthalene	625.1	625.1	w	50 – 130	<40	0.15	0.60	2	Y	Y
5A	1-Methylnaphthalene	3510C	8270E	w	50 – 130	<40	0.15	0.60	2	Y	N
5A	1-Methylnaphthalene	3550C	8270E	s	40 – 140	<40	27	110	2	Y	N
5A	1-Methylnaphthalene	3580C	8270E	ws	40 – 140	<40	8000	32000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	2-Methylnaphthalene	625.1	625.1	w	50 – 130	<40	0.15	0.60	2	Y	Y
5A	2-Methylnaphthalene	3510C	8270E	w	50 – 130	<40	0.15	0.60	2	Y	N
5A	2-Methylnaphthalene	3550C	8270E	s	40 – 140	<40	27	110	2	Y	N
5A	2-Methylnaphthalene	3580C	8270E	ws	40 – 140	<40	8000	32000	1	Y	N
5A	1-Methylphenanthrene	625.1	625.1	w	50 – 130	<40	0.10	0.40	2	Y	N
5A	1-Methylphenanthrene	3510C	8270E	w	50 – 130	<40	0.10	0.40	2	Y	N
5A	1-Methylphenanthrene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	1-Methylphenanthrene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Naphthalene	625.1	625.1	w	50 – 130	<40	0.10	0.40	2	Y	Y
5A	Naphthalene	3510C	8270E	w	50 – 130	<40	0.10	0.40	2	Y	N
5A	Naphthalene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	Naphthalene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	2-Nitroaniline	625.1	625.1	w	50 – 130	<40	0.30	1.2	1	Y	Y
5A	2-Nitroaniline	3510C	8270E	w	50 – 130	<40	0.30	1.2	1	Y	N
5A	2-Nitroaniline	3550C	8270E	s	40 – 140	<40	100	400	1	Y	N
5A	2-Nitroaniline	3580C	8270E	ws	40 – 140	<40	30000	120000	1	Y	N
5A	Nitrobenzene	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
5A	Nitrobenzene	3510C, 1311-12	8270E	w, tclp, splp	50 – 130	<40	0.10	0.40	1	Y	N
5A	Nitrobenzene	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	Nitrobenzene	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	N-Nitrosodiethylamine	625.1	625.1	w	50 – 130	<40	0.40	1.6	1	Y	N
5A	N-Nitrosodiethylamine	3510C	8270E	w	50 – 130	<40	0.40	1.6	1	Y	N
5A	N-Nitrosodiethylamine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	N-Nitrosodiethylamine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	N-Nitrosodiphenylamine/ Diphenylamine	625.1	625.1	w	50 – 150	<40	0.080	0.32	1	Y	Y
5A	N-Nitrosodiphenylamine/ Diphenylamine	3510C	8270E	w	50 – 150	<40	0.080	0.32	1	Y	N
5A	N-Nitrosodiphenylamine/ Diphenylamine	3550C	8270E	s	40 – 140	<40	83	330	1	Y	N
5A	N-Nitrosodiphenylamine/ Diphenylamine	3580C	8270E	ws	40 – 140	<40	25000	100000	1	Y	N
5A	N-Nitrosodimethylamine	625.1	625.1	w	30 – 130	<40	2.5	10	1	Y	Y
5A	N-Nitrosodimethylamine	3510C	8270E	w	30 – 130	<40	2.5	10	1	Y	N
5A	N-Nitrosodimethylamine	3550C	8270E	s	40 – 140	<40	170	670	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	N-Nitrosodimethylamine	3580C	8270E	ws	40 – 140	<40	50000	200000	1	Y	N
5A	N-Nitrosodi-n-butylamine	625.1	625.1	w	50 – 130	<40	0.50	2.0	1	Y	Y
5A	N-Nitrosodi-n-butylamine	3510C	8270E	w	50 – 130	<40	0.0.50	2.0	1	Y	N
5A	N-Nitrosodi-n-butylamine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	N-Nitrosodi-n-butylamine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	N-Nitrosodi-n-propylamine	625.1	625.1	w	50 – 130	<40	0.12	0.48	1	Y	Y
5A	N-Nitrosodi-n-propylamine	3510C	8270E	w	50 – 130	<40	0.12	0.48	1	Y	N
5A	N-Nitrosodi-n-propylamine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	N-Nitrosodi-n-propylamine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	N-Nitrosomethylethylamine	625.1	625.1	w	50 – 130	<40	2.0	8.0	1	Y	Y
5A	N-Nitrosomethylethylamine	3510C	8270E	w	50 – 130	<40	2.0	8.0	1	Y	N
5A	N-Nitrosomethylethylamine	3550C	8270E	s	40 – 140	<40	83	330	1	Y	N
5A	N-Nitrosomethylethylamine	3580C	8270E	ws	40 – 140	<40	25000	100000	1	Y	N
5A	N-Nitrosomorpholine	625.1	625.1	w	50 – 150	<40	0.080	0.32	1	Y	Y
5A	N-Nitrosomorpholine	3510C	8270E	w	50 – 150	<40	0.080	0.32	1	Y	N
5A	N-Nitrosomorpholine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	N-Nitrosomorpholine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	N-Nitrosopiperidine	625.1	625.1	w	50 – 130	<40	0.070	0.28	1	Y	Y
5A	N-Nitrosopiperidine	3510C	8270E	w	50 – 130	<40	0.070	0.28	1	Y	N
5A	N-Nitrosopiperidine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	N-Nitrosopiperidine	3580C	8270E	ws	40 – 140	<40	208000	80000	1	Y	N
5A	N-Nitrosopyrrolidine	625.1	625.1	w	50 – 130	<40	0.70	2.8	1	Y	Y
5A	N-Nitrosopyrrolidine	3510C	8270E	w	50 – 130	<40	0.70	2.8	1	Y	N
5A	N-Nitrosopyrrolidine	3550C	8270E	s	40 – 140	<40	100	400	1	Y	N
5A	N-Nitrosopyrrolidine	3580C	8270E	ws	40 – 140	<40	308000	120000	1	Y	N
5A	Pentachlorobenzene	625.1	625.1	w	50 – 130	<40	0.060	0.24	1	Y	Y
5A	Pentachlorobenzene	3510C	8270E	w	50 – 130	<40	0.060	0.24	1	Y	N
5A	Pentachlorobenzene	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Pentachlorobenzene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Pentachloroethane	625.1	625.1	w	50 – 130	<40	0.15	0.60	1	Y	Y
5A	Pentachloroethane	3510C	8270E	w	50 – 130	<40	0.15	0.60	1	Y	N

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	Pentachloroethane	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Pentachloroethane	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Pentachloronitrobenzene	625.1	625.1	w	50 – 130	<40	0.10	0.40	1	Y	Y
5A	Pentachloronitrobenzene	3510C	8270E	w	50 – 130	<40	0.10	0.40	1	Y	N
5A	Pentachloronitrobenzene	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Pentachloronitrobenzene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	Phenanthrene	625.1	625.1	w	50 – 130	<40	0.070	0.28	2	Y	Y
5A	Phenanthrene	3510C	8270E	w	50 – 130	<40	0.070	0.28	2	Y	N
5A	Phenanthrene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	Phenanthrene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	2-Picoline	625.1	625.1	w	50 – 130	<40	0.60	2.4	1	Y	N
5A	2-Picoline	3510C	8270E	w	50 – 130	<40	0.60	2.4	1	Y	N
5A	2-Picoline	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	2-Picoline	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Pyrene	625.1	625.1	w	50 – 130	<40	0.10	0.40	2	Y	Y
5A	Pyrene	3510C	8270E	w	50 – 130	<40	0.10	0.40	2	Y	N
5A	Pyrene	3550C	8270E	s	40 – 140	<40	17	67	2	Y	N
5A	Pyrene	3580C	8270E	ws	40 – 140	<40	5000	20000	1	Y	N
5A	Pyridine	625.1	625.1	w	20 – 130	<40	4.0	16	1	Y	Y
5A	Pyridine	3510C	8270E	w	20 – 130	<40	4.0	16	1	Y	N
5A	Pyridine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	Pyridine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	Safrole	625.1	625.1	w	50 – 130	<40	0.080	0.32	1	Y	Y
5A	Safrole	3510C	8270E	w	50 – 130	<40	0.080	0.32	1	Y	N
5A	Safrole	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	Safrole	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	1,2,4,5-Tetrachlorobenzene	625.1	625.1	w	50 – 130	<40	0.070	0.28	1	Y	Y
5A	1,2,4,5-Tetrachlorobenzene	3510C	8270E	w	50 – 130	<40	0.070	0.28	1	Y	N
5A	1,2,4,5-Tetrachlorobenzene	3550C	8270E	s	40 – 140	<40	10	40	1	Y	N
5A	1,2,4,5-Tetrachlorobenzene	3580C	8270E	ws	40 – 140	<40	3000	12000	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Semi-Volatile Organics (GC-MS, GC-FID)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
5A	o-Toluidine	625.1	625.1	w	50 – 130	<40	0.40	1.6	1	Y	Y
5A	o-Toluidine	3510C	8270E	w	50 – 130	<40	0.40	1.6	1	Y	N
5A	o-Toluidine	3550C	8270E	s	40 – 140	<40	67	270	1	Y	N
5A	o-Toluidine	3580C	8270E	ws	40 – 140	<40	20000	80000	1	Y	N
5A	1,2,4-Trichlorobenzene	625.1	625.1	w	50 – 130	<40	0.050	0.20	1	Y	Y
5A	1,2,4-Trichlorobenzene	3510C	8270E	w	50 – 130	<40	0.050	0.20	1	Y	N
5A	1,2,4-Trichlorobenzene	3550C	8270E	s	40 – 140	<40	13	53	1	Y	N
5A	1,2,4-Trichlorobenzene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	2,3,5-Trimethylnaphthalene	625.1	625.1	w	50 – 130	<40	0.025	0.10	2	Y	Y
5A	2,3,5-Trimethylnaphthalene	3510C	8270E	w	50 – 130	<40	0.025	0.10	2	Y	N
5A	2,3,5-Trimethylnaphthalene	3550C	8270E	s	40 – 140	<40	13	53	2	Y	N
5A	2,3,5-Trimethylnaphthalene	3580C	8270E	ws	40 – 140	<40	4000	16000	1	Y	N
5A	1,3,5-Trinitrobenzene	625.1	625.1	w	50 – 150	<40	0.10	0.40	1	Y	Y
5A	1,3,5-Trinitrobenzene	3510C	8270E	w	50 – 150	<40	0.10	0.40	1	Y	N
5A	1,3,5-Trinitrobenzene	3550C	8270E	s	40 – 140	<40	50	200	1	Y	N
5A	1,3,5-Trinitrobenzene	3580C	8270E	ws	40 – 140	<40	15000	60000	1	Y	N
5B	Petroleum Range Organics (TRPH)	FL-PRO (B)	FL-PRO	w	55 – 118	<20	600	1800	2	Y	N
5B	Petroleum Range Organics (TRPH)	FL-PRO(A)	FL-PRO	s	63 – 153	<25	35000	110000	2	Y	N
5B	Petroleum Range Organics (TRPH)	FL-PRO(C)	FL-PRO	ws	63 – 153	<25	880000	26000000	2	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	Acesulfame K		8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Endothall		8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	AMPA		8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Glufosinate		8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Glyphosate		8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Sucralose		8321B	w	60 – 130	<30	0.010	0.040	1	Y	N
6	Diquat		8321B	w	40 – 150	<30	1.0	4.0	1	N	N
6	Paraquat		8321B	w	30 – 110	<30	2.0	8.0	1	N	N
6	Aldicarb	3535A	8321B	w	30 – 120	<30	0.02	0.080	1	Y	N
6	Aldicarb	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Aldicarb Sulfone	3535A	8321B	w	60 – 130	<30	0.002	0.0080	1	Y	N
6	Aldicarb Sulfone	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Aldicarb Sulfoxide	3535A	8321B	w	60 – 130	<30	0.002	0.0080	1	Y	N
6	Aldicarb Sulfoxide	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Carbaryl	3535A	USGS O-2060-1	w	40 – 120	<30	0.002	0.0080	1	Y	Y
6	Carbaryl	3535A	8321B	w	40 – 120	<30	0.002	0.0080	1	Y	N
6	Carbaryl	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Carbofuran	3535A	8321B	w	50 – 120	<30	0.0020	0.0080	1	Y	N
6	Carbofuran	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	3-Hydroxycarbofuran	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	3-Hydroxycarbofuran	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Methiocarb	3535A	USGS O-2060-1	w	40 – 120	<30	0.0020	0.0080	1	Y	Y
6	Methiocarb	3535A	8321B	w	40 – 120	<30	0.0020	0.0080	1	Y	N
6	Methiocarb	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (HPLC-MS/MS)

6	Methomyl	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Methomyl	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Oxamyl	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Oxamyl	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	Propoxur	3535A	USGS O-2060-1	w	40 – 120	<30	0.0020	0.0080	1	Y	Y
6	Propoxur	3535A	8321B	w	40 – 120	<30	0.0020	0.0080	1	Y	N
6	Propoxur	3570	8321B	s	50 – 130	<35	1.0	4.0	1	Y	N
6	2,4-D	3535A	USGS O-2060-1	w	60 – 160	<30	0.0020	0.0080	1	Y	Y
6	2,4-D	3535A	8321B	w	60 – 160	<30	0.0020	0.0080	1	Y	N
6	2,4-D	SOP LC-011	8321B	s	50 – 130	<35	0.33	1.3	2	Y	N
6	2,4-DB	3535A	8321B	w	30 – 130	<30	0.0080	0.032	1	Y	N
6	2,4-DB	SOP LC-011	8321B	s	50 – 130	<35	0.33	1.3	2	Y	N
6	2,4,5-T	3535A	8321B	w	60 – 160	<30	0.0040	0.016	1	Y	N
6	2,4,5-T	SOP LC-011	8321B	s	30 – 130	<35	0.33	1.3	2	Y	N
6	Acifluorfen	3535A	8321B	w	50 – 130	<30	0.0080	0.032	1	Y	N
6	Acifluorfen	SOP LC-011	8321B	s	30 – 130	<35	0.33	1.3	2	Y	N
6	Bentazon	3535A	8321B	w	60 – 130	<30	0.00080	0.0032	1	Y	N
6	Bentazon	SOP LC-011	8321B	s	30 – 130	<35	0.33	1.3	2	Y	N
6	Dicamba	3535A	USGS O-2060-1	w	30 – 150	<30	0.080	0.32	1	Y	Y
6	Dicamba	3535A	8321B	w	30 – 150	<30	0.080	0.32	1	Y	N
6	Dicamba	SOP LC-011	8321B	s	30 – 130	<35	3.3	13	2	Y	N
6	Dichlorprop	3535A	8321B	w	60 – 160	<30	0.0040	0.016	1	Y	N
6	Dichlorprop	SOP LC-011	8321B	s	30 – 130	<35	0.33	1.3	2	Y	N
6	Dinoseb	3535A	8321B	w	50 – 130	<30	0.0040	0.016	1	Y	N
6	Dinoseb	SOP LC-011	8321B	s	50 – 130	<35	0.33	1.3	2	Y	N
6	MCPA	3535A	8321B	w	60 – 160	<30	0.0020	0.0080	1	Y	N
6	MCPA	SOP LC-011	8321B	s	50 – 130	<35	0.33	1.3	2	Y	N
6	MCPP	3535A	8321B	w	50 – 160	<30	0.0020	0.0080	1	Y	N
6	MCPP	SOP LC-011	8321B	s	50 – 130	<35	0.33	1.3	2	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	Picloram	3535A	8321B	w	50 – 130	<30	0.080	0.32	1	Y	N
6	Picloram	SOP LC-011	8321B	s	30 – 130	<35	3.3	13	2	Y	N
6	Silvex	3535A	8321B	w	40 – 150	<30	0.0040	0.016	1	Y	N
6	Silvex	SOP LC-011	8321B	s	30 – 130	<35	0.33	1.3	2	Y	N
6	Triclopyr	3535A	8321B	w	60 – 160	<30	0.004	0.016	1	Y	N
6	Triclopyr	SOP LC-011	8321B	s	30 – 130	<35	0.33	1.3	2	Y	N
6	Acetaminophen	3535A	8321B	w	60 – 130	<30	0.0080	0.032	1	Y	N
6	Acetaminophen	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Acetamiprid	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Acetamiprid	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Afidopyropen	3535A	8321B	w	30 – 120	<30	0.0020	0.0080	1	Y	N
6	Afidopyropen	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Benzovindiflupyr	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Benzovindiflupyr	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Carbamazepine	3535A	8321B	w	50 – 120	<30	0.00080	0.0032	1	Y	N
6	Carbamazepine	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Clothianidin	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Clothianidin	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Dinotefuran	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Dinotefuran	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Diuron	3535A	USGS O-2060-1	w	30 – 120	<30	0.0020	0.0080	1	Y	Y
6	Diuron	3535A	8321B	w	30 – 120	<30	0.0020	0.0080	1	Y	N
6	Diuron	3570	8321B	s	50 – 130	<35	0.50	2.0	1	Y	N
6	Fenuron	3535A	USGS O-2060-1	w	60 – 130	<30	0.032	0.128	1	Y	Y
6	Fenuron	3535A	8321B	w	60 – 130	<30	0.032	0.128	1	Y	N
6	Fenuron	3570	8321B	s	50 – 130	<35	0.50	2.0	1	Y	N
6	Fluometuron	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	N	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	Fluometuron	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Fluridone	3535A	8321B	w	50 – 120	<30	0.00080	0.0032	1	Y	N
6	Fluridone	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Hydrocodone	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Hydrocodone	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Ibuprofen	3535A	8321B	w	50 – 120	<30	0.080	0.32	1	Y	N
6	Imazapyr	3535A	8321B	w	60 – 130	<30	0.0040	0.016	1	Y	N
6	Imazapyr	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Imidacloprid	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Imidacloprid	3570	8321B	s	50 – 130	<35	0.50	2.0	1	Y	N
6	Linuron	3535A	USGS O-2060-1	w	40 – 120	<30	0.0040	0.016	1	Y	Y
6	Linuron	3535A	8321B	w	40 – 120	<30	0.0040	0.016	1	Y	N
6	Linuron	3570	8321B	s	50 – 130	<35	0.50	2.0	1	Y	N
6	Mandestrobin	3535A	8321B	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Mandestrobin	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Naproxen	3535A	8321B	w	40 – 120	<30	0.0080	0.032	1	Y	N
6	Primidone	3535A	8321B	w	60 – 130	<30	0.0040	0.016	1	Y	N
6	Primidone	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Pyraclostrobin	3535A	8321B	w	50 – 120	<30	0.0020	0.0080	1	Y	N
6	Pyraclostrobin	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Thiamethoxam	3535A	8321B	w	60 – 130	<30	0.0020	0.0080	1	Y	N
6	Thiamethoxam	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N
6	Tolfenpyrad	3535A	8321B	w	30 – 100	<30	0.0020	0.0080	1	Y	N
6	Tolfenpyrad	3570	8321B	s	50 – 130	<35	0.50	2.0	1	N	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	Cylindrospermopsin	SOP LC-011	8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Desmethyl microcystin LR	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Microcystin LA	SOP LC-011	8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Microcystin LF	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Microcystin LR	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Microcystin LW	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Microcystin LY	SOP LC-011	8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Microcystin RR	SOP LC-011	8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Microcystin WR	SOP LC-011	8321B	w	60 – 130	<30	0.50	2.0	1	Y	N
6	Microcystin YR	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Microcystin HiLR	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Microcystin HtYR	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Nodularin-R	SOP LC-011	8321B	w	60 – 130	<30	0.10	0.40	1	Y	N
6	Anatoxin-a	SOP LC-011	8321B	w	60 – 130	<30	0.25	1.0	1	Y	N
6	Saxitoxin	SOP LC-011	8321B	w	60 – 130	<30	0.50	2.0	1	Y	N
6	Neosaxitoxin	SOP LC-011	8321B	w	60 – 120	<30	0.50	2.0	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Perfluorinated Alkyl Substances, PFAS (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3535A	DEP SOP LC-001-3	w	40 – 120	<30	0.0020	0.0080	1	Y	N
6	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00040	0.0016	1	Y	N
6	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3570	DEP SOP LC-001-3	s	50 – 160	<35	0.10	0.40	1	Y	N
6	N-Ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	N-Ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	8:2 Fluorotelomer sulfonate (8:2 FTS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	8:2 Fluorotelomer sulfonate (8:2 FTS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	4:2 Fluorotelomer sulfonate (4:2 FTS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	4:2 Fluorotelomer sulfonate (4:2 FTS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	6:2 Fluorotelomer sulfonate (6:2 FTS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.008	0.032	1	Y	N
6	6:2 Fluorotelomer sulfonate (6:2 FTS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Perfluorinated Alkyl Substances, PFAS (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0040	0.016	1	Y	N
6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N
6	N-Methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	N-Methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluorobutanesulfonic acid (PFBS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00040	0.0016	1	Y	N
6	Perfluorobutanesulfonic acid (PFBS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluorobutanoic acid (PFBA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0040	0.016	1	Y	N
6	Perfluorobutanoic acid (PFBA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N
6	Perfluorodecanesulfonic acid (PFDS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00040	0.0016	1	Y	N
6	Perfluorodecanesulfonic acid (PFDS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluorodecanoic acid (PFDA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0040	0.016	1	Y	N
6	Perfluorodecanoic acid (PFDA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N
6	Perfluorododecanoic acid (PFDoA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluorododecanoic acid (PFDoA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoroheptanesulfonic acid (PFHpS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	Perfluoroheptanesulfonic acid (PFHpS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluoroheptanoic acid (PFHpA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Perfluorinated Alkyl Substances, PFAS (HPLC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (% RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
6	Perfluoroheptanoic acid (PFHpA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluorohexanesulfonic acid (PFHxS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	Perfluorohexanesulfonic acid (PFHxS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluorohexanoic acid (PFHxA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluorohexanoic acid (PFHxA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluorononanesulfonic acid (PFNS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00040	0.0016	1	Y	N
6	Perfluorononanesulfonic acid (PFNS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluorononanonic acid (PFNA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluorononanonic acid (PFNA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoro-1-octanesulfonamide (FOSA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00040	0.0016	1	Y	N
6	Perfluoro-1-octanesulfonamide (FOSA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluorooctanesulfonic acid (PFOS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluorooctanesulfonic acid (PFOS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluorooctanoic acid (PFOA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluorooctanoic acid (PFOA)	3570	DEP SOP LC-001-3	s	50 – 160	<35	0.20	0.80	1	Y	N
6	Perfluoropentanoic acid (PFPeA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluoropentanoic acid (PFPeA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoropentanesulfonic acid (PFPeS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00040	0.0016	1	Y	N
6	Perfluoropentanesulfonic acid (PFPeS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Perfluorinated Alkyl Substances, PFAS (HPLC-MS/MS)

6	Perfluorotetradecanoic acid (PFTeA)	3535A	DEP SOP LC-001-3	w	60 – 160	<30	0.0020	0.0080	1	Y	N
6	Perfluorotetradecanoic acid (PFTeA)	3570	DEP SOP LC-001-3	s	50 – 160	<35	0.20	0.80	1	Y	N
6	Perfluorotridecanoic acid (PFTriA)	3535A	DEP SOP LC-001-3	w	60 – 160	<30	0.0020	0.0080	1	Y	N
6	Perfluorotridecanoic acid (PFTriA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoroundecanoic acid (PFUnA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0020	0.0080	1	Y	N
6	Perfluoroundecanoic acid (PFUnA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoro-1-butanefulfonamide (FBSA)	3535A	DEP SOP LC-001-3	w	60 – 160	<30	0.00080	0.0032	1	Y	N
6	Perfluoro-1-butanefulfonamide (FBSA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluoro-1-hexanesulfonamide (FHxSA)	3535A	DEP SOP LC-001-3	w	60 – 160	<30	0.00080	0.0032	1	Y	N
6	Perfluoro-1-hexanesulfonamide (FHxSA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.10	0.40	1	Y	N
6	Perfluoro-4-methoxybutanoic acid (PFMBA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	Perfluoro-4-methoxybutanoic acid (PFMBA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoro-3-methoxypropanoic acid (PFMPA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	Perfluoro-3-methoxypropanoic acid (PFMPA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.20	0.80	1	Y	N
6	Perfluoropropanesulfonic acid (PFPrS)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0040	0.016	1	Y	N
6	Perfluoropropanesulfonic acid (PFPrS)	3570	DEP SOP LC-001-3	s	50 – 160	<35	0.20	0.80	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Perfluorinated Alkyl Substances, PFAS (HPLC-MS/MS)

6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0080	0.032	1	Y	N
6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3570	DEP SOP LC-001-3	s	50 – 160	<35	0.40	1.6	1	Y	N
6	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.00080	0.0032	1	Y	N
6	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3570	DEP SOP LC-001-3	s	50 – 160	<35	0.20	0.80	1	Y	N
6	3-Perfluoropropyl propanoic acid (3:3 FTCA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0080	0.032	1	Y	N
6	3-Perfluoropropyl propanoic acid (3:3 FTCA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N
6	2H, 2H, 3H, 3H-Perfluorooctanoic acid (5:3 FTCA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0080	0.032	1	Y	N
6	2H, 2H, 3H, 3H-Perfluorooctanoic acid (5:3 FTCA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N
6	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	3535A	DEP SOP LC-001-3	w	50 – 150	<30	0.0080	0.032	1	Y	N
6	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	3570	DEP SOP LC-001-3	s	50 – 150	<35	0.40	1.6	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	Aldrin	3535A	8270E	w	40-120	<30	0.00065	0.0033	1	Y	N
7A	Aldrin	3580A	8270E	ws	60 – 130	<30	10	40	4, 7	Y	N
7A	Aldrin	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 7	N	N
7A	Aldrin	3550C	8270E	s	60 – 130	<30	0.067	0.27	4,7	Y	N
7A	Alpha-BHC	3535A	8270E	w	60 – 150	<30	0.00025	0.0013	1	Y	N
7A	Alpha-BHC	3580A	8270E	ws	60 – 130	<30	6.0	24	4, 5, 7	Y	N
7A	Alpha-BHC	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	Alpha-BHC	3550C	8270E	s	60 – 130	<30	0.040	0.16	3,4,5,7	Y	N
7A	Beta-BHC	3535A	8270E	w	60 – 150	<30	0.00010	0.00050	1	Y	N
7A	Beta-BHC	3580A	8270E	ws	60 – 130	<30	7.0	28	4, 5, 7	Y	N
7A	Beta-BHC	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	Beta-BHC	3550C	8270E	s	60 – 130	<30	0.047	0.19	4, 5, 7	Y	N
7A	Delta-BHC	3535A	8270E	w	60 – 150	<30	0.00040	0.0020	1	Y	N
7A	Delta-BHC	3580A	8270E	ws	60 – 130	<30	20	80	4, 7	Y	N
7A	Delta-BHC	SOP GC-004-1 (based on 3545A)	8270E	t	31 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	Delta-BHC	3550C	8270E	s	60 – 130	<30	0.13	0.53	4, 7	Y	N
7A	Gamma-BHC	3535A	8270E	w	60 – 150	<30	0.00013	0.00063	1	Y	N
7A	Gamma-BHC	3580A	8270E	ws	60 – 130	<30	6.0	24	4, 5, 7	Y	N
7A	Gamma-BHC	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	Gamma-BHC	3550C	8270E	s	60 – 130	<30	0.040	0.16	4, 5, 7	Y	N
7A	Bifenthrin	3535A	8270E	w	60 – 150	<30	0.00050	0.0025	1	Y	N
7A	Bifenthrin	3580C	8270E	ws	60 – 130	<30	5.0	20	4, 7	Y	N
7A	Bifenthrin	3550C	8270E	s	60 – 130	<30	0.033	0.13	4, 7	Y	N
7A	Carbophenothion	3535A	8270E	w	60 – 150	<30	0.00090	0.0045	1	Y	N
7A	Carbophenothion	3580C	8270E	ws	60 – 130	<30	12	48	4, 7	Y	N
7A	Carbophenothion	3550C	8270E	s	60 – 130	<30	0.080	0.32	4, 7	Y	N
7A	Chlordane technical	3535A	8276	w	50 – 130	<30	0.0020	0.0062	1	Y	N
7A	Chlordane technical	3580A	8276	ws	65 – 110	<30	100	400	4, 5, 7	Y	N
7A	Chlordane technical	3550C	8276	s	65 – 110	<30	0.67	2.7	4, 5, 7	Y	N
7A	Alpha chlordane (cis-chlordane)	3535A	8270E	w	60 – 150	<30	0.00020	0.0010	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	Alpha chlordane (cis-chlordane)	3580A	8270E	ws	60 – 130	<30	12	48	4, 5, 7	Y	N
7A	Alpha chlordane (cis-chlordane)	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	Alpha chlordane (cis-chlordane)	3550C	8270E	s	60 – 130	<30	0.080	0.32	4, 5, 7	Y	N
7A	Gamma chlordane (trans-chlordane)	3535A	8270E	w	60 – 150	<30	0.00020	0.0010	1	Y	N
7A	Gamma chlordane (trans-chlordane)	3580A	8270E	ws	60 – 130	<30	16	64	4, 5, 7	Y	N
7A	Gamma chlordane (trans-chlordane)	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	Gamma chlordane (trans-chlordane)	3550C	8270E	s	60 – 130	<30	0.11	0.43	4, 5, 7	Y	N
7A	Chlorothalonil	3535A	8270E	w	60 – 150	<30	0.0036	0.018	1	Y	N
7A	Chlorothalonil	3580A	8270E	ws	60 – 130	<30	30	120	4, 7	Y	N
7A	Chlorothalonil	3550C	8270E	s	60 – 130	<30	0.20	0.80	4, 7	Y	N
7A	Beta-Cyfluthrin	3535A	8270E	w	60-150	<30	0.0013	0.0063	1	Y	N
7A	Beta-Cyfluthrin	3580A	8270E	ws	60-130	<30	16	64	4,7	Y	N
7A	Beta-Cyfluthrin	3550C	8270E	s	60-130	<30	0.11	0.43	4,7	Y	N
7A	Lambda-Cyhalothrin	3535A	8270E	w	60-150	<30	0.00075	0.0038	1	Y	N
7A	Lambda-Cyhalothrin	3580C	8270E	ws	60-130	<30	60	240	4,7	Y	N
7A	Lambda-Cyhalothrin	3550C	8270E	s	60-130	<30	0.40	1.6	4,7	Y	N
7A	Cypermethrin	3535A	8270E	w	60 – 150	<30	0.0015	0.0075	1	Y	N
7A	Cypermethrin	3580A	8270E	ws	60 – 130	<30	50	200	4, 7	Y	N
7A	Cypermethrin	3550C	8270E	s	60 – 130	<30	0.33	1.3	4,7	Y	N
7A	Dacthal	3535A	8270E	w	50-150	<30	0.00015	0.00075	1	Y	N
7A	Dacthal	3580C	8270E	ws	50-150	<30	3.0	12	4,7	Y	N
7A	Dacthal	3550C	8270E	s	50-150	<30	0.020	0.080	4,7	Y	N
7A	o,p-DDD	GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	o,p-DDE	GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	o,p-DDT	GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	p,p'-DDD	3535A	8270E	w	60 – 150	<30	0.00025	0.0013	1	Y	N
7A	p,p'-DDD	3580A	8270E	ws	60 – 130	<30	16	64	4, 5, 7	Y	N
7A	p,p'-DDD	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	p,p'-DDD	3550C	8270E	s	60 – 130	<30	0.11	0.44	4, 5, 7	Y	N
7A	p,p'-DDE	3535A	8270E	w	60 – 150	<30	0.00020	0.00010	1	N	N
7A	p,p'-DDE	3580A	8270E	ws	60 – 130	<30	6.0	24	4, 5, 7	Y	N
7A	p,p'-DDE	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	p,p'-DDE	3550C	8270E	s	60 – 130	<30	0.040	0.16	4, 5, 7	Y	N
7A	p,p'-DDT	3535A	8270E	w	60 – 150	<30	0.00080	0.0040	1	Y	N
7A	p,p'-DDT	3580A	8270E	ws	60 – 130	<30	40	160	4, 5, 7	Y	N
7A	p,p'-DDT	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	p,p'-DDT	3550C	8270E	s	60 – 130	<30	0.27	1.1	4, 5, 7	Y	N
7A	Deltamethrin	3535A	8270E	w	50-150	<.30	0.0013	0.0063	1	Y	N
7A	Delatmethrin	3580C	8270E	ws	50-150	<30	20	80	4,7	Y	N
7A	Delatmethrin	3550C	8270E	s	50-150	<30	0.13	0.53	4,7	Y	N
7A	Dichlobenil	3535A	8270E	w	50-150	<30	0.00025	0.0012	1	Y	N
7A	Dichlobenil	3580C	8270E	ws	60 – 130	<30	9.0	36	4, 7	Y	N
7A	Dichlobenil	3550C	8270E	ws	60 – 130	<30	0.060	0.24	4, 7	Y	N
7A	Dicofol	3535A	8270E	w	30 – 150	<30	0.0013	0.0063	1	Y	N
7A	Dicofol	3580A	8270E	ws	60 – 130	<30	110	440	4, 7	Y	N
7A	Dicofol	3550C	8270E	s	23 – 231	<30	0.73	2.9	4,7	Y	N
7A	Dieldrin	3535A	8270E	w	60 – 150	<30	0.00090	0.0045	1	Y	N
7A	Dieldrin	3580A	8270E	ws	60 – 130	<30	30	120	4, 7	Y	N
7A	Dieldrin	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 7	N	N
7A	Dieldrin	3550C	8270E	s	60 – 130	<30	0.20	0.80	4,7	Y	N
7A	Endosulfan I	3535A	8270E	w	60 – 150	<30	0.00040	0.0020	1	Y	N
7A	Endosulfan I	3580A	8270E	ws	60 – 130	<30	25	100	4, 7	Y	N
7A	Endosulfan I	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 7	N	N
7A	Endosulfan I	3550C	8270E	s	60 – 130	<30	0.17	0.67	4,7	Y	N
7A	Endosulfan II	3535A	8270E	w	60 – 150	<30	0.00090	0.0045	1	Y	N
7A	Endosulfan II	3580A	8270E	ws	60 – 130	<30	30	120	4, 7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	Endosulfan II	SOP GC-004-1 (based on 3545A)	8270E	t	63 – 159	<30	0.8	3.2	4, 7	N	N
7A	Endosulfan II	3550C	8270E	s	60 – 130	<30	0.20	0.80	4,7	Y	N
7A	Endosulfan sulfate	3535A	8270E	w	60 – 150	<30	0.00030	0.0015	1	Y	N
7A	Endosulfan sulfate	3580A	8270E	ws	60 – 130	<30	15	60	4, 7	Y	N
7A	Endosulfan sulfate	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 7	N	N
7A	Endosulfan sulfate	3550C	8270E	s	60 – 130	<30	0.10	0.40	4,7	Y	N
7A	Endrin	3535A	8270E	w	60 – 150	<30	0.00090	0.0045	1	Y	N
7A	Endrin	3580A	8270E	ws	60 – 130	<30	25	100	4, 7	Y	N
7A	Endrin	SOP GC-004-1 (based on 3545A)	8270E	t	78 – 156	<30	0.80	3.2	4, 7	N	N
7A	Endrin	3550C	8270E	s	60 – 130	<30	0.17	0.67	4,7	Y	N
7A	Endrin aldehyde	3535A	8270E	w	60 – 150	<30	0.00075	0.0038	1	Y	N
7A	Endrin aldehyde	3580A	8270E	ws	60 – 130	<30	30	120	4, 7	Y	N
7A	Endrin aldehyde	3550C	8270E	s	60 – 130	<30	0.20	0.80	4,7	Y	N
7A	Endrin aldehyde	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 7	N	N
7A	Endrin ketone	3535A	8270E	w	60 – 150	<30	0.00040	0.0020	1	Y	N
7A	Endrin ketone	3580C	8270E	ws	60 – 130	<30	20	80	4, 7	Y	N
7A	Endrin ketone	3550C	8270E	s	60 – 130	<30	0.13	0.53	4,7	Y	N
7A	Endrin ketone	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 7	N	N
7A	Esfenvalerate	3535A	8270E	w	50-150	<30	0.00075	0.0038	1	Y	N
7A	Esfenvalerate	3580C	8270E	ws	60 – 130	<30	20	80	4, 7	Y	N
7A	Esfenvalerate	3550C	8270E	s	60 – 130	<30	0.13	53	4,7	Y	N
7A	Ethalfuralin	3535A	8270E	w	40 – 120	<30	0.00015	0.00075	1	Y	N
7A	Ethalfuralin	3580A	8270E	ws	60 – 130	<30	3.0	12	4, 7	Y	N
7A	Ethalfuralin	3550C	8270E	s	60 – 130	<30	0.067	0.27	4, 7	Y	N
7A	Fenpropathrin	3535A	8270E	w	50-150	<30	0.00025	0.0013	1	Y	N
7A	Fenpropathrin	3580C	8270E	ws	60 – 130	<30	24	96	4, 7	Y	N
7A	Fenpropathrin	3550C	8270E	s	60 – 130	<30	0.16	0.64	4,7	Y	N
7A	Tau-Fluvalinate	3535A	8270E	w	50-150	<30	0.00055	0.0028	1	Y	N
7A	Tau-Fluvalinate	3580C	8270E	ws	60 – 130	<30	20	80	4, 7	Y	N
7A	Tau-Fluvalinate	3550C	8270E	s	60 – 130	<30	0.13	0.53	4,7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	Heptachlor	3535A	8270E	w	40 – 120	<30	0.00020	0.0010	1	Y	N
7A	Heptachlor	3580A	8270E	ws	60 – 130	<30	8.0	32	4, 5, 7	Y	N
7A	Heptachlor	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	Heptachlor	3550C	8270E	s	60 – 130	<30	0.053	0.21	4, 5, 7	Y	N
7A	Heptachlor epoxide	3535A	8270E	w	60 – 150	<30	0.00025	0.0013	1	Y	N
7A	Heptachlor epoxide	3580A	8270E	ws	60 – 130	<30	6.0	24	4, 7	Y	N
7A	Heptachlor epoxide	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 7	N	N
7A	Heptachlor epoxide	3550C	8270E	s	60 – 130	<30	0.040	0.16	4, 7	Y	N
7A	Hexachlorobenzene	3535A	8270E	w	60 – 150	<30	0.0010	0.0050	1	N	N
	Hexachlorobenzene	3580A	8270E	ws	60 – 130	<30	25	100	4, 7	N	N
7A	Hexachlorobenzene	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
	Hexachlorobenzene	3550C	8270E	s	60 – 130	<30	0.17	0.67	4,7	N	N
7A	Kepone	3535A	8270E	w	50-150	<30	0.014	0.068	1	Y	N
7A	Methoprene	3535A	8270E	w	50-150	<30	0.00075	0.0038	1	Y	N
7A	Methoprene	3580C	8270E	ws	60 – 130	<30	60	240	4, 7	Y	N
7A	Methoprene	3550C	8270E	s	60 – 130	<30	0.40	1.6	4,7	Y	N
7A	Methoxychlor	3535A	8270E	w	60 – 150	<30	0.00030	0.0015	1	Y	N
7A	Methoxychlor	3580C	8270E	ws	60 – 130	<30	20	80	4, 7	Y	N
7A	Methoxychlor	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 7	N	N
7A	Methoxychlor	3550C	8270E	s	67 – 148	<30	0.13	0.53	4, 7	Y	N
7A	MGK-264	3535A	8270E	w	50-150	<30	0.00020	0.0010	1	Y	N
7A	MGK-264	3580C	8270E	ws	60 – 130	<30	20	80	4, 7	Y	N
7A	MGK-264	3550C	8270E	s	60 – 130	<30	0.13	0.53	4,7	Y	N
7A	Mirex	3535A	8270E	w	40 – 120	<30	0.00035	0.0018	1	Y	N
7A	Mirex	3580A	8270E	ws	60 – 130	<30	6.0	24	4, 5, 7	Y	N
7A	Mirex	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	Mirex	3550C	8270E	s	60 – 130	<30	0.040	0.16	4, 5, 7	Y	N
7A	cis-Nonachlor	3535A	8270E	w	40 – 120	<30	0.00020	0.0010	1	Y	N
7A	cis-Nonachlor	3580A	8270E	ws	60 – 130	<30	6.0	24	4, 5, 7	Y	N
7A	cis-Nonachlor	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 5, 7	N	N
7A	cis-Nonachlor	3550C	8270E	s	60 – 130	<30	0.040	0.16	4, 5, 7	Y	N

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Pcrsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	trans-Nonachlor	3535A	8270E	w	40 – 120	<30	0.00020	0.0010	1	Y	N
7A	trans-Nonachlor	3580A	8270E	ws	60 – 130	<30	8.0	32	4, 5, 7	Y	N
7A	trans-Nonachlor	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 5, 7	N	N
7A	trans-Nonachlor	3550C	8270E	s	60 – 130	<30	0.053	0.21	4, 5, 7	Y	N
7A	Oxychlordane	3535A	8270E	w	50-150	<30	0.00030	0.0015	1	Y	N
7A	Oxychlordane	3580C	8270E	ws	60 – 130	<30	10	40	4, 7	Y	N
7A	Oxychlordane	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	Oxychlordane	3550C	8270E	s	60 – 130	<30	0.067	0.27	4,7	Y	N
7A	PCB 8	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	PCB 18	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.40	1.6	4, 5, 7	N	N
7A	PCB 28	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 44	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 52	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.80	3.2	4, 5, 7	N	N
7A	PCB 66	SOP GC-004-1 (based on 3545A)	8720D	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 77	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 101	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 105	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 118	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 126	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 128	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 138	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N
7A	PCB 153	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.20	0.80	4, 5, 7	N	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	PCB 170	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 180	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 187	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 195	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 206	SOP GC-004-1 (based on 3545A)	8270E	t	60 – 130	<30	0.32	1.3	4, 5, 7	N	N
7A	PCB 1016	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1016	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1016	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	PCB 1221	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1221	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1221	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	PCB 1232	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1232	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1232	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	PCB 1242	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1242	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1242	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	PCB 1248	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1248	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1248	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	PCB 1254	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1254	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1254	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	PCB 1260	3535A	8270E	w	60 – 130	<30	0.0020	0.010	1	Y	N
7A	PCB 1260	3580A	8270E	ws	60 – 130	<30	210	840	4, 5, 7	Y	N
7A	PCB 1260	3550C	8270E	s	60 – 130	<30	1.4	5.6	4, 5, 7	Y	N
7A	Permethrin	3535A	8270E	w	60 – 150	<30	0.0016	0.0080	1	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Chlorinated, GC-MS/MS, GC-MS-NCI)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Prcsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7A	Permethrin	3580A	8270E	ws	60 – 130	<30	45	180	4, 7	Y	N
7A	Permethrin	3550C	8270E	s	60 – 130	<30	0.30	1.2	4, 7	Y	N
7A	Phenothrin	3535A	8270E	w	50-150	<,30	0.00090	0.0.0045	1	YN	N
7A	Phenothrin	3580C	8270E	ws	60-130	<30	120	480	4, 7	Y	N
7A	Phenothrin	3550C	8270E	s	60-130	<30	0.80	3.2	4, 7	Y	N
7A	Piperonil Butoxide	3535A	8270E	w	50-150	<30	0.00015	0.00075	1	Y	N
7A	Piperonil Butoxide	3580C	8270E	ws	60 – 130	<30	15	60	4, 7	Y	N
7A	Piperonil Butoxide	3550C	8270E	s	60 – 130	<30	0.10	0.40	4,7	Y	N
7A	Prallethrin	3535A	8270E	w	50-150	<,30	0.0020	0.010	1	Y	N
7A	Prallethrin	3580C	8270E	ws	60-130	<30	40	160	4, 7	Y	N
7A	Prallethrin	3550C	8270E	s	60-130	<30	0.27	11	4, 7	Y	N
7A	Tetramethrin	3535A	8270E	w	50-150	<30	0.00075	0.0038	1	Y	N
7A	Tetramethrin	3580C	8270E	ws	60 – 130	<30	30	120	4, 7	Y	N
7A	Tetramethrin	3550C	8270E	s	60 – 130	<30	0.20	0.80	4,7	Y	N
7A	Toxaphene	3535A	8276	w	50 – 130	<30	0.015	0.038	1	Y	N
7A	Toxaphene	3580A	8276	ws	61 – 124	<30	1000	4000	3, 4, 5, 7	Y	N
7A	Toxaphene	SOP GC-004-1 (based on 3545A)	8276	t	70 – 130	<30	10	40	4, 5, 7	N	N
7A	Toxaphene	3550C	8276	s	61 – 124	<30	6.7	27	3,4,5,7	Y	N
7A	Triclosan Methyl	3535A	8270E	w	50-150	<30	0.00015	0.00075	1	Y	N
7A	Triclosan Methyl	3580C	8270E	ws	60 – 130	<30	6.0	24	4, 7	Y	N
7A	Triclosan Methyl	3550C	8270E	s	60 – 130	<30	0.040	0.16	4,7	Y	N
7A	Trifluralin	3535A	8270E	w	60 – 150	<30	0.00020	0.0010	1	Y	N
7A	Trifluralin	3580A	8270E	ws	60 – 130	<30	10	40	4, 7	Y	N
7A	Trifluralin	3550C	8270E	s	60 – 130	<30	0.0.67	0.27	4,7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Acetochlor	3510C	8270E	w	50 – 150	<30	0.00020	0.0010	1	Y	N
7B	Acetochlor	3550C	8270E	s	50 – 150	<30	0.20	0.80	7	Y	N
7B	Acetochlor	3580A	8270E	ws	50 – 150	<30	30	120	7	Y	N
7B	Alachlor	3510C	8270E	w	50-150	<30	0.00040	0.0020	1	Y	N
7B	Alachlor	3550C	8270E	s	50 – 150	<30	0.13	0.53	7	Y	N
7B	Alachlor	3580A	8270E	ws	50 – 150	<30	20	80	7	Y	N
7B	Ametryn	3510C	8270E	w	50-150	<30	0.0025	0.0125	1	Y	N
7B	Ametryn	3550C	8270E	s	50 – 150	<30	0.29	1.2	7	Y	N
7B	Ametryn	3580A	8270E	ws	50 – 150	<30	43	170	7	Y	N
7B	Atrazine	3510C	8270E	w	50-150	<30	0.00020	0.0010	1	Y	N
7B	Atrazine	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Atrazine	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Atrazine Desethyl	3510C	8270E	w	50-150	<30	0.0013	0.0065	1	Y	N
7B	Atrazine Desethyl	3550C	8270E	s	50 – 150	<30	0.40	1.6	7	Y	N
7B	Atrazine Desethyl	3580A	8270E	ws	50 – 150	<30	60	240	7	Y	N
7B	Azinphos Methyl	3510C	8270E	w	50-150	<30	0.0030	0.015	1	Y	N
7B	Azinphos Methyl	3550C	8270E	s	50 – 150	<30	0.80	3.2	7	Y	N
7B	Azinphos Methyl	3580A	8270E	ws	50 – 150	<30	120	480	7	Y	N
7B	Azoxystrobin	3510C	8270E	w	50-150	<30	0.00040	0.0020	1	Y	N
7B	Bromacil	3510C	8270E	w	50-150	<30	0.00060	0.0030	1	Y	N
7B	Bromacil	3550C	8270E	s	50 – 150	<30	0.27	1.1	7	Y	N
7B	Bromacil	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N
7B	Butylate	3510C	8270E	w	30-120	<30	0.00045	0.0027	1	Y	N
7B	Butylate	3550C	8270E	s	30 – 120	<30	0.27	1.1	7	Y	N
7B	Butylate	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N
7B	Caffeine	3510C	8270E	w	50-150	<30	0.0075	0.038	1	N	N
7B	Carbophenothion	3510C	8270E	w	50-150	<30	0.00050	0.0025	1	Y	N
7B	Carbophenothion	3550C	8270E	s	50-150	<30	0.067	0.27	7	Y	N
7B	Carbophenothion	3580A	8270E	ws	50-150	<30	10	40	7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Presn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Carfentrazone Ethyl	3510C	8270E	w	50-150	<30	0.00015	0.00075	1	Y	N
7B	Chlorfenapyr	3510C	8270E	w	50-150	<30	0.00030	0.0015	1	Y	N
7B	Chlorpyrifos Ethyl	3510C	8270E	w	50-150	<30	0.00030	0.0015	1	Y	N
7B	Chlorpyrifos Ethyl	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Chlorpyrifos Ethyl	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Chlorpyrifos Methyl	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Chlorpyrifos Methyl	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Chlorpyrifos Methyl	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Coumaphos	3510C	8270E	w	50-150	<30	0.0011	0.0053	1	Y	N
7B	Cyanazine	3510C	8270E	w	50-150	<30	0.0050	0.025	1	Y	N
7B	Cyanazine	3550C	8270E	s	50 – 150	<30	0.27	1.1	7	Y	N
7B	Cyanazine	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N
7B	Cyprodinil	3510C	8270E	w	50-150	<30	0.00020	0.0010	1	Y	N
7B	Demeton	3510C	8270E	w	50-150	<30	0.0035	0.018	1	Y	N
7B	Demeton	3550C	8270E	s	40 – 140	<30	0.93	3.7	7	Y	N
7B	Demeton	3580A	8270E	ws	50 – 150	<30	140	560	7	Y	N
7B	Diazinon	3510C	8270E	w	50-150	<30	0.00012	0.00062	1	Y	N
7B	Diazinon	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Diazinon	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Difenoconazole	3510C	8270E	w	50-150	<30	0.00060	0.0030	1	Y	N
7B	Dimethenamid	3510C	8270E	w	60 – 130	,30	0.00010	0.00050	1	Y	N
7B	Dimethenamid	3550C	8270E	s	60 – 130	,30	0.013	0.052	7	Y	N
7B	Dimethenamid	3580A	8270E	ws	50 – 150	<30	2	8	7	Y	N
7B	Dimethomorph	3510C	8270E	w	50-150	<30	0.0030	0.0015	1	Y	N
7B	Disulfoton	3510C	8270E	w	50-150	<30	0.00060	0.0030	1	Y	N
7B	Disulfoton	3550C	8270E	s	40 – 140	<30	0.13	0.53	7	Y	N
7B	Disulfoton	3580A	8270E	ws	50 – 150	<30	20	80	7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Dithiopyr	3510C	8270E	w	60 – 130	,30	0.0020	0.010	1	Y	N
7B	Dithiopyr	3550C	8270E	s	60 – 130	,30	0.14	0.56	7	Y	N
7B	Dithiopyr	3580A	8270E	ws	50 – 150	<30	21	88	7	Y	N
7B	EPTC	3510C	8270E	w	30-120	<30	0.00050	0.0025	1	Y	N
7B	EPTC	3550C	8270E	s	30 – 120	<30	0.33	1.3	7	Y	N
7B	EPTC	3580A	8270E	ws	50 – 150	<30	50	200	7	Y	N
7B	Ethion	3510C	8270E	w	50-150	<30	0.00030	0.0015	1	Y	N
7B	Ethion	3550C	8270E	s	50 – 150	<30	0.20	0.80	7	Y	N
7B	Ethion	3580A	8270E	ws	50 – 150	<30	30	120	7	Y	N
7B	Ethoprop	3510C	8270E	w	50-150	<30	0.00012	0.00062	1	Y	N
7B	Ethoprop	3550C	8270E	s	50 – 150	<30	0.033	0.13	7	Y	N
7B	Ethoprop	3580A	8270E	ws	50 – 150	<30	5	20	7	Y	N
7B	Etridiazole	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Fenamiphos	3510C	8270E	w	50 – 150	<30	0.00045	0.0022	1	Y	N
7B	Fenamiphos	3550C	8270E	s	50 – 150	<30	0.27	1.1	7	Y	N
7B	Fenamiphos	3580A	8270E	ws	50 – 150	<30	41	160	7	Y	N
7B	Fenbuconazole	3510C	8270E	w	50-150	<30	0.00050	0.0025	1	Y	N
7B	Fipronil	3510C	8270E	w	50-150	<30	0.00020	0.0010	1	Y	N
7B	Fipronil	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Fipronil	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Fipronil Desulfinyl	3510C	8270E	w	60 – 130	<30	0.00010	0.00050	1	N	N
7B	Fipronil Desulfinyl	3550C	8270E	s	60 – 130	<30	0.047	0.19	1	N	N
7B	Fipronil Desulfinyl	3580A	8270E	ws	50 – 150	<30	7	28	7	N	N
7B	Fipronil Sulfide	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Fipronil Sulfide	3550C	8270E	s	50 – 150	<30	0.093	0.37	7	Y	N
7B	Fipronil Sulfide	3580A	8270E	ws	50 – 150	<30	14	56	7	Y	N
7B	Fipronil Sulfone	3510C	8270E	w	50-150	<30	0.00025	0.0012	1	Y	N
7B	Fipronil Sulfone	3550C	8270E	s	50 – 150	<30	0.087	0.35	7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Fipronil Sulfone	3580A	8270E	ws	50 – 150	<30	13	52	7	Y	N
7B	Fluazifop-P-butyl	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Fludioxonil	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Flumioxazin	3510C	8270E	w	50-150	<30	0.0030	0.015	1	Y	N
7B	Flumioxazin	3550C	8270E	s	50-150	<30	0.8	3.2	1	Y	N
7B	Flumioxazin	3580A	8270E	ws	50 – 150	<30	120	480	7	Y	N
7B	Flutolanil	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Fluxapyroxad	3510C	8270E	w	50-150	<30	0.00025	0.0012	1	Y	N
7B	Fonofos	3510C	8270E	w	50-150	<30	0.00015	0.00075	1	Y	N
7B	Fonofos	3550C	8270E	s	50 – 150	<30	0.053	0.21	7	Y	N
7B	Fonofos	3580A	8270E	ws	50 – 150	<30	8	32	7	Y	N
7B	Hexazinone	3510C	8270E	w	50-150	<30	0.00050	0.0025	1	Y	N
7B	Hexazinone	3550C	8270E	s	50 – 150	<30	0.27	1.1	7	Y	N
7B	Hexazinone	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N
7B	Imazalil	3510C	8270E	w	50-150	<30	0.00065	0.0032	1	Y	N
7B	Iprodione	3510C	8270E	w	50-150	<30	0.00050	0.0025	1	Y	N
7B	Loratadine	3510C	8270E	w	50-150	<30	0.00030	0.0015	1	N	N
7B	Malathion	3510C	8270E	w	50-150	<30	0.00035	0.0018	1	Y	N
7B	Malathion	3550C	8270E	s	50 – 150	<30	0.13	0.53	7	Y	N
7B	Malathion	3580A	8270E	ws	50 – 150	<30	20	80	7	Y	N
7B	Metalaxyl	3510C	8270E	w	50-150	<30	0.00050	0.0025	1	Y	N
7B	Metalaxyl	3550C	8270E	s	50 – 150	<30	0.20	0.80	7	Y	N
7B	Metalaxyl	3580A	8270E	ws	50 – 150	<30	30	120	7	Y	N
7B	Methamidophos	3550C	8270E	s	20 – 100	<30	1.6	6.4	7	Y	N
7B	Methamidophos	3580A	8270E	ws	50 – 150	<30	240	960	7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Metolachlor	3510C	8270E	w	50-150	<30	0.00075	0.0038	1	Y	N
7B	Metolachlor	3550C	8270E	s	50 – 150	<30	0.080	0.32	7	Y	N
7B	Metolachlor	3580A	8270E	ws	50 – 150	<30	12	48	7	Y	N
7B	Metribuzin	3510C	8270E	w	50-150	<30	0.00040	0.0020	1	Y	N
7B	Metribuzin	3550C	8270E	s	50 – 150	<30	0.33	1.3	7	Y	N
7B	Metribuzin	3580A	8270E	ws	50 – 150	<30	50	200	7	Y	N
7B	Mevinphos	3510C	8270E	w	50-150	<30	0.0010	0.0050	1	Y	N
7B	Mevinphos	3550C	8270E	s	40 – 140	<30	0.17	0.67	7	Y	N
7B	Mevinphos	3580A	8270E	ws	50 – 150	<30	25	100	7	Y	N
7B	Molinate	3510C	8270E	w	30 – 120	<30	0.00025	0.0012	1	Y	N
7B	Molinate	3550C	8270E	s	30 – 120	<30	0.10	0.40	7	Y	N
7B	Molinate	3580A	8270E	ws	50 – 150	<30	15	60	7	Y	N
7B	Monocrotophos	3550C	8270E	s	20 – 100	<30	1.7	6.8	7	Y	N
7B	Monocrotophos	3580A	8270E	ws	50 – 150	<30	250	100	7	Y	N
7B	Myclobutanil	3510C	8270E	w	50-150	<30	0.00035	0.0018	1	Y	N
7B	Naled	3510C	8270E	w	50 – 150	<30	0.0025	0.012	1	N	N
7B	Naled	3550C	8270E	s	50 – 150	<30	0.67	2.7	1	N	N
7B	Naled	3580A	8270E	ws	50 – 150	<30	100	400	7	N	N
7B	Napropamide	3510C	8270E	w	50 – 150	<30	0.00070	0.0035	1	Y	N
7B	Norflurazon	3510C	8270E	w	50 – 150	<30	0.0010	0.0050	1	Y	N
7B	Norflurazon	3550C	8270E	s	50 – 150	<30	0.27	1.1	7	Y	N
7B	Norflurazon	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N
7B	Oxadiazon	3510C	8270E	w	50 – 150	<30	0.00035	0.0018	1	Y	N
7B	Oxadiazon	3550C	8270E	s	50 – 150	<30	0.033	0.13	7	Y	N
7B	Oxadiazon	3580A	8270E	ws	50 – 150	<30	5	20	7	Y	N
7B	Oxyfluorfen	3510C	8270E	w	50-150	<30	0.00020	0.0010	1	Y	N
7B	Parathion Ethyl	3510C	8270E	w	50 – 150	<30	0.00015	0.00075	1	Y	N
7B	Parathion Ethyl	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Parathion Ethyl	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Parathion Methyl	3510C	8270E	w	50 – 150	<30	0.00020	0.0010	1	Y	N
7B	Parathion Methyl	3550C	8270E	s	50 – 150	<30	0.20	0.80	7	Y	N
7B	Parathion Methyl	3580A	8270E	ws	50 – 150	<30	30	120	7	Y	N
7B	Pendimethalin	3510C	8270E	w	50 – 150	<30	0.0017	0.0085	1	Y	N
7B	Pendimethalin	3550C	8270E	s	50 – 150	<30	0.27	1.1	7	Y	N
7B	Pendimethalin	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N
7B	Phenytoin	3510C	8270E	w	50-150	<30	0.012	0.060	1	N	N
7B	Phorate	3510C	8270E	w	50 – 150	<30	0.00025	0.0015	1	Y	N
7B	Phorate	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Phorate	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Prodiamine	3510C	8270E	w	50 – 150	<30	0.00050	0.0025	1	Y	N
7B	Prodiamine	3550C	8270E	s	50 – 150	<30	0.040	0.16	1	Y	N
7B	Prodiamine	3580A	8270E	ws	50 – 150	<30	6	24	7	Y	N
7B	Prometon	3510C	8270E	w	50 – 150	<30	0.0030	0.0015	1	Y	N
7B	Prometon	3550C	8270E	s	50 – 150	<30	0.20	0.80	7	Y	N
7B	Prometon	3580A	8270E	ws	50 – 150	<30	30	120	7	Y	N
7B	Prometryn	3510C	8270E	w	50 – 150	<30	0.00035	0.0018	1	Y	N
7B	Prometryn	3550C	8270E	s	50 – 150	<30	0.20	0.80	7	Y	N
7B	Prometryn	3580A	8270E	ws	50 – 150	<30	30	120	7	Y	N
7B	Pronamide	3510C	8270E	w	50 – 150	<30	0.00010	0.00050	1	Y	N
7B	Pronamide	3550C	8270E	s	50 – 150	<30	0.067	0.27	1	Y	N
7B	Pronamide	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Propanil	3510C	8270E	w	50-150	<30	0.00010	0.00050	1	Y	N
7B	Propargite	3510C	8270E	w	50-150	<30	0.00080	0.0040	1	Y	N
7B	Propiconazole	3510C	8270E	w	50 – 150	<30	0.00060	0.0030	1	Y	N
7B	Propiconazole	3550C	8270E	s	50 – 150	<30	0.27	1.1	1	Y	N
7B	Propiconazole	3580A	8270E	ws	50 – 150	<30	40	160	7	Y	N

Table 5.1
QA Targets for Accuracy, Precision and LODs/LOQs

Pesticides (Nitrogen-Phosphorus, GC-MS/MS)

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7B	Pyraflufen Ethyl	3510C	8270E	w	50-150	<30	0.00030	0.0015	1	Y	N
7B	Pyridaben	3510C	8270E	w	50-150	<30	0.0014	0.0070	1	Y	N
7B	Pyriproxyfen	3510C	8270E	w	50-150	<30	0.00025	0.0016	1	N	N
7B	Simazine	3510C	8270E	w	50 – 150	<30	0.00025	0.0012	1	Y	N
7B	Simazine	3550C	8270E	s	50 – 150	<30	0.13	0.53	7	Y	N
7B	Simazine	3580A	8270E	ws	50 – 150	<30	20	80	7	Y	N
7B	Stirophos	3510C	8270E	w	50-150	<30	0.00040	0.0032	1	Y	N
7B	Sulfentrazone	3510C	8270E	w	50 – 150	<30	0.0014	0.0070	1	Y	N
7B	Sulfentrazone	3550C	8270E	s	50 – 150	<30	0.080	0.32	7	Y	N
7B	Sulfentrazone	3580A	8270E	ws	50 – 150	<30	12	48	7	Y	N
7B	Tebuconazole	3510C	8270E	w	30-100	<30	0.0014	0.0070	1	Y	Y
7B	Tebuconazole	3550C	8270E	s	30 – 100	<30	0.067	0.27	7	Y	N
7B	Tebuconazole	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Terbufos	3510C	8270E	w	50 – 150	<30	0.00020	0.0010	1	Y	N
7B	Terbufos	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Terbufos	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Terbuthylazine	3510C	8270E	w	50 – 150	<30	0.00020	0.0010	1	Y	N
7B	Terbuthylazine	3550C	8270E	s	50 – 150	<30	0.067	0.27	7	Y	N
7B	Terbuthylazine	3580A	8270E	ws	50 – 150	<30	10	40	7	Y	N
7B	Thiobencarb	3510C	8270E	w	50-150	<30	0.00050	0.0025	1	Y	N
7B	Triadimefon	3510C	8270E	w	50-150	<30	0.00015	0.00075	1	Y	N

Environmental Tracers, GC/MS-SIM

Anal. Grp.	Analyte	Prep Method	Analysis Method	Matrix	Accuracy Range (%)	Precsn (%RPD)	LOD (ppb)	LOQ (ppb)	Clean-Up	NELAC	NPDES
7C	Avobenzene	3510C	8270E	w	50-150	<30	0.10	0.30	1	N	N
7C	Dechlorane Plus	3510C	8270E	w	50 – 150	<30	0.030	0.090	1	N	N
7C	Dechlorane 602	3510C	8270E	w	50 – 150	<30	0.0050	0.015	1	N	N
7C	Dechlorane 603	3510C	8270E	w	50 – 150	<30	0.0040	0.012	1	N	N
7C	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	3510C	8270E	w	50 – 150	<30	0.012	0.036	1	N	N
7C	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	3510C	8270E	w	50 – 150	<30	0.060	0.240	1	N	N
7C	Hexabromobenzene	3510C	8270E	w	50 – 150	<30	0.0060	0.018	1	N	N
7C	Oxybenzone	3510C	8270E	w	50-150	<30	0.010	0.030	1	N	N
7C	Octinoxate	3510C	8270E	w	50-150	<30	0.15	0.45	1	N	N
7C	PBB-153	3510C	8270E	w	50-150	<30	0.0060	0.018	1	N	N
7C	PBDE-47	3510C	8270E	w	50-150	<30	0.0040	0.012	1	N	N
7C	PBDE-99	3510C	8270E	w	50 – 150	<30	0.0050	0.0150	1	N	N
7C	Pentabromotoluene	3510C	8270E	w	50 – 150	<30	0.0030	0.0090	1	N	N
7C	Tetradecachloro-m-terphenyl	3510C	8270E	w	50 – 150	<30	0.0075	0.022	1	N	N
7C	Tris(1-chloroethyl) phosphate (TCEP)	3510C	8270E	w	50 – 150	<30	0.055	0.170	1	N	N
7C	Tris(1-chloro-2-propyl) phosphate (TCPP)	3510C	8270E	w	50 – 150	<30	0.10	0.30	1	N	N
7C	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3510C	8270E	w	50 – 150	<30	0.0050	0.015	1	N	N
7C	Tri-o-cresyl Phosphate	3510C	8270E	w	50-150	<30	0.0060	0.018	1	N	N

KEY TO ANALYTE GROUPS

GROUP	ANALYTE	ANALYTICAL REGIME
1A (ICP-AES)	Metals	ICP Emission Spectroscopy
1B(ICP-MS)	Metals	ICP Mass Spectroscopy
1C (CVAAS)	Metals	Cold Vapor/Hydride AAS
1D (CVAF)	Metals	Cold Vapor/Atomic Fluorescence
1E (PT-GC/AF)	Methyl Mercury	P&T GC/ Atomic Fluorescence
2A	Nutrient/Major Ions	Automated Flow Injection
2B	Nutrient/Major ions	Segmented Flow Analyzer
2C	Nutrient/Major ions	Wet Chemical Analysis
2D	Nutrient/Major ions	Gravimetric
2E	Nutrient/Major ions	Ion Chromatography
2F	Nutrient/Major ions	Spectrophotometric
2G	Nutrient/Major ions	Combustion or Treatment with Acid/IR
2H	Nutrient/Flaspoint	Pensky-Marten Tester
2I	Nutrient/Percent Water	Karl Fisher Titration
2J	Nutrient/Major ions	Automated Discrete Analyzer
3A	Volatiles	P&T GC/PID/Hall
3B	Volatiles	P&T GC/MS
4	Acid Extractables	GC/MS
5A	Base Neutral Extractables	GC/MS
5B	Petroleum-Range Organics	GC/FID
6	Herbicides and Pesticides	HPLC/MS MS
7A	Pesticides (GC) - Chlorinated	GC/ECD and MS/MS and MS-NCI
7B	Pesticides (GC) - N, P or S containing	GC/NPD and MS/MS
7C	Environmental Tracers	GC/MS/MS
8A	Airborne Particulate Matter ≤ 2.5 um	Gravimetric Analysis

KEY TO CLEAN - UP PROCEDURES

1. Not applicable.
2. Clean up included in preparation or analysis method.
3. EPA 3660A (Sulfur Clean-Up)
4. EPA 3620 (Florisil).
5. EPA 3665 (H₂SO₄).
6. C18 solid phase extraction.
7. EPA 3640A (Gel Permeation Chromatography).