

Chemical Analysis Report

NE-DIST-2024-02-16-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

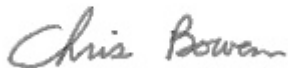
Event Description: **LSJR NorthEast 2024**
Request ID: **RQ-2024-02-19-09**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 12-MAR-2024 09:44



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469616	DEP SOP: NU-094-1	Color (true)	49		PCU	P441576	
	EPA 180.1 Rev. 2.0	Turbidity	5.3		NTU	P441586	
	EPA 300.0 Rev. 2.1	Chloride	370		mg Cl/L	P442057	
		Sulfate	87		mg SO4/L	P442061	
	SM 2320 B-2011	Total Alkalinity	94		mg CaCO3/L	P442206	
	SM 2540 C-2015	TDS	776		mg/L	P441984	
	SM 2540 D-2015	TSS	5	I	mg/L	P441934	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P442210	
2469617	EPA 350.1 Rev. 2.0	Ammonia-N	0.098		mg N/L	P441962	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P441814	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P441778	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P441720	
	SM 5310 B-2014	Organic Carbon	9.1		mg C/L	P441950	

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 1544 umhos/cm.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: RED BAY BRANCH AT LONE STAR ROAD

Collection Date/Time: 02/15/2024 10:10

Field ID: 20030674				Matrix: W-SURF-FRH				
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2469641	EPA 200.7 Rev. 4.4	Calcium	39.9		mg/L	P441649		
		Iron	180		ug/L	P441649		
		Magnesium	10.8		mg/L	P441649		
		Potassium	2.5		mg/L	P441649		
		Sodium	25.9		mg/L	P441649		
		Strontium	424		ug/L	P441649		
		Tin	3.0	U	ug/L	P441649		
		Titanium	0.92	I	ug/L	P441649		
		Vanadium	2.0	U	ug/L	P441649		
		Zinc	6.8	I	ug/L	P441649		
	EPA 200.8 Rev. 5.4	Aluminum	85		ug/L	P441649		
		Antimony	0.10	I	ug/L	P441649		
		Arsenic	0.24		ug/L	P441649		
		Barium	41.8		ug/L	P441649		
		Beryllium	0.010	I	ug/L	P441649		
		Boron	60.0		ug/L	P441649		
		Cadmium	0.032	I	ug/L	P441649		
		Chromium	0.40	U	ug/L	P441649		
		Cobalt	0.117		ug/L	P441649		
		Copper	0.45	I	ug/L	P441649		
		Lead	0.87		ug/L	P441649		
		Manganese	17.4		ug/L	P441649		
		Molybdenum	0.25	I	ug/L	P441649		
		Nickel	0.50	U	ug/L	P441649		
		Selenium	0.20	U	ug/L	P441649		
		Silver	0.010	U	ug/L	P441649		
		Thallium	0.10	U	ug/L	P441649		
	SM 2340 B-2011	Hardness	144		mg/L	P441649		

Sample Location: LITTLE POTTSBURG CREEK AT ATLANTIC
BLVD

Collection Date/Time: 02/15/2024 10:40

Field ID: 20030679

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469608	DEP SOP: NU-094-1	Color (true)	110		PCU	P441576	
	EPA 180.1 Rev. 2.0	Turbidity	7.2		NTU	P441586	
	EPA 300.0 Rev. 2.1	Chloride	2.9E+03		mg Cl/L	P442239	
		Sulfate	440		mg SO4/L	P442061	
	SM 2320 B-2011	Total Alkalinity	76		mg CaCO3/L	P442206	
	SM 2540 C-2015	TDS	4.97E+03		mg/L	P441984	
	SM 2540 D-2015	TSS	2	I	mg/L	P441934	
	SM 4500-F- C-2011	Fluoride	0.29		mg F/L	P442210	
2469609	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P441754	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P441813	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P442391	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P441660	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P441950	
2469630	EPA 8321B	Aldicarb	0.020	U	ug/L	P441467	
		Aldicarb Sulfone	0.0020	U	ug/L	P441467	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P441467	MS
		Carbaryl	0.0020	U	ug/L	P441467	
		Carbofuran	0.0020	U	ug/L	P441467	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P441467	
		Methiocarb	0.0020	U	ug/L	P441467	
		Methomyl	0.0020	U	ug/L	P441467	
		Oxamyl	0.0020	U	ug/L	P441467	
		Propoxur	0.0020	U	ug/L	P441467	
2469631		2,4-D	0.018		ug/L	P441664	
		Acesulfame K	0.10	U	ug/L	P441572	
		2,4,5-T	0.0040	U	ug/L	P441664	
		AMPA	0.10	U	ug/L	P441572	
		Acetaminophen	0.0080	U	ug/L	P441664	
		Acetamiprid	0.0020	U	ug/L	P441664	
		Endothall	0.25	U	ug/L	P441572	
		Glufosinate	0.10	U	ug/L	P441572	
		Glyphosate	0.10	U	ug/L	P441572	
		Afidopyropen	0.0020	U	ug/L	P441664	
		Bentazon	0.011		ug/L	P441664	
		Sucralose	0.43		ug/L	P441572	
		Benzovindiflupyr	0.0020	U	ug/L	P441664	
		Carbamazepine	8.8E-04	I	ug/L	P441664	
		Clothianidin	0.0020	U	ug/L	P441664	
		Dinotefuran	0.0020	U	ug/L	P441664	
		Diuron	0.0071	I	ug/L	P441664	
		Fenuron	0.032	U	ug/L	P441664	
		Fluridone	0.0022	I	ug/L	P441664	
		Imazapyr	0.13		ug/L	P441664	

Field ID: 20030679

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469631	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P441664	
		Ibuprofen	0.080	U	ug/L	P441664	
		Imidacloprid	0.0050	I	ug/L	P441664	
		Linuron	0.026		ug/L	P441664	
		Mandestrobin	0.0020	U	ug/L	P441664	
		MCP	0.0020	U	ug/L	P441664	
		Naproxen	0.0080	U	ug/L	P441664	
		Primidone	0.0040	U	ug/L	P441664	
		Pyraclostrobin	0.0020	U	ug/L	P441664	
		Silvex	0.0040	U	ug/L	P441664	
		Thiamethoxam	0.0020	U	ug/L	P441664	
		Tolfenpyrad	0.0020	U	ug/L	P441664	
		Triclopyr	0.0040	U	ug/L	P441664	
		Aldrin	0.67	U	ng/L	P441759	
2469632	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P441759	
		Alpha-Chlordane	0.21	U	ng/L	P441759	
		PCB-1016	2.1	U	ng/L	P441759	
		Beta-BHC	0.10	U	ng/L	P441759	
		PCB-1221	2.1	U	ng/L	P441759	
		Beta-Cyfluthrin	1.3	U	ng/L	P441759	
		PCB-1232	2.1	U	ng/L	P441759	
		Bifenthrin	0.51	U	ng/L	P441759	MS
		PCB-1242	2.1	U	ng/L	P441759	
		PCB-1248	2.1	U	ng/L	P441759	
		Chlorothalonil	3.7	U	ng/L	P441759	
		PCB-1254	2.1	U	ng/L	P441759	
		Cis-Nonachlor	0.21	U	ng/L	P441759	
		PCB-1260	2.1	U	ng/L	P441759	
		Cypermethrin	1.5	U	ng/L	P441759	
		Dacthal	0.15	U	ng/L	P441759	
		DDD-p,p'	0.31	I	ng/L	P441759	
		DDE-p,p'	0.21	U	ng/L	P441759	
		DDT-p,p'	7.0		ng/L	P441759	
		Delta-BHC	0.41	U	ng/L	P441759	
		Deltamethrin	1.3	U	ng/L	P441759	
		Dichlobenil	0.26	U	ng/L	P441759	
		Dicofol	1.3	U	ng/L	P441759	
		Dieldrin	0.41	U	ng/L	P441759	
		Endosulfan I	0.41	U	ng/L	P441759	
		Endosulfan II	0.93	U	ng/L	P441759	
		Endosulfan Sulfate	0.31	U	ng/L	P441759	
		Endrin	0.93	U	ng/L	P441759	
		Endrin Aldehyde	0.77	U	ng/L	P441759	
		Endrin Ketone	0.41	U	ng/L	P441759	
		Esfenvalerate	0.77	U	ng/L	P441759	

Field ID: 20030679

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2469632	EPA 8270E	Ethalfuralin	0.15	U	ng/L	P441759			
		Fenpropathrin	0.26	U	ng/L	P441759			
		Gamma-BHC	0.13	U	ng/L	P441759			
		Gamma-Chlordane	0.21	U	ng/L	P441759			
		Heptachlor	0.21	U	ng/L	P441759	MS		
		Heptachlor Epoxide	0.26	U	ng/L	P441759			
		Hexachlorobenzene**	1.0	U	ng/L	P441759			
		Kepone	14	U	ng/L	P441759			
		Lambda-Cyhalothrin	0.77	U	ng/L	P441759			
		Methoprene	0.77	U	ng/L	P441759			
		Methoxychlor	0.31	U	ng/L	P441759			
		MGK-264	0.21	U	ng/L	P441759			
		Mirex	0.36	U	ng/L	P441759			
		Oxychlordane	0.31	U	ng/L	P441759	MS		
		Permethrin	1.6	U	ng/L	P441759			
		Phenothrin	0.93	U	ng/L	P441759	MS		
		Piperonyl Butoxide	0.15	U	ng/L	P441759			
		Prallethrin	2.1	U	ng/L	P441759			
		Tau-Fluvalinate	0.26	U	ng/L	P441759			
		Tetramethrin	0.77	U	ng/L	P441759			
		Trans-Nonachlor	0.21	U	ng/L	P441759			
		Triclosan Methyl	0.15	U	ng/L	P441759			
		Trifluralin	0.21	U	ng/L	P441759			
			EPA 8276	Chlordane	2.1	U	ng/L	P441759	
				Toxaphene	15	U	ng/L	P441759	
2469633	EPA 8270E	Oxybenzone**	10	U	ng/L	P441876			
		Acetochlor	0.20	U	ng/L	P441876			
		Octinoxate**	150	U	ng/L	P441876			
		Alachlor	0.41	U	ng/L	P441876			
		Avobenzone**	100	U	ng/L	P441876			
		Ametryn	1.1	U	ng/L	P441876			
		Atrazine	20		ng/L	P441876			
		PBDE-47**	4.1	U	ng/L	P441876			
		Atrazine Desethyl	2.2	I	ng/L	P441876			
		PBDE-99**	5.1	U	ng/L	P441876			
		Azinphos Methyl	3.1	U	ng/L	P441876			
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P441876			
		Azoxystrobin	3.1	J	ng/L	P441876			
		Bromacil	0.84	I	ng/L	P441876			
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P441876			
		Butylate	0.46	U	ng/L	P441876			
		Dechlorane Plus**	31	U	ng/L	P441876			
		Caffeine**	22	I	ng/L	P441876			
		Dechlorane 602**	5.1	U	ng/L	P441876			

Field ID: 20030679

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469633	EPA 8270E	Carbophenothion	0.51	U	ng/L	P441876	RPD
		Dechlorane 603**	4.1	U	ng/L	P441876	
		Carfentrazone Ethyl	0.15	U	ng/L	P441876	
		Hexabromobenzene**	6.1	U	ng/L	P441876	
		Chlorfenapyr	0.31	U	ng/L	P441876	
		PBB-153**	6.1	U	ng/L	P441876	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P441876	
		Pentabromotoluene**	3.1	U	ng/L	P441876	
		Chlorpyrifos Methyl	0.10	U	ng/L	P441876	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P441876	
		Coumaphos	1.1	U	ng/L	P441876	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P441876	
		Cyanazine	5.1	U	ng/L	P441876	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.1	I	ng/L	P441876	
		Cyprodinil	0.20	U	ng/L	P441876	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P441876	
		Demeton	3.6	U	ng/L	P441876	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P441876	
		Diazinon	0.13	U	ng/L	P441876	
		Difenoconazole	0.61	U	ng/L	P441876	
		Dimethenamid	0.10	U	ng/L	P441876	
		Dimethomorph	0.31	U	ng/L	P441876	
		Disulfoton	0.61	U	ng/L	P441876	
		Dithiopyr	1.0	U	ng/L	P441876	
		EPTC	0.51	U	ng/L	P441876	
		Ethion	0.31	U	ng/L	P441876	
		Ethoprop	2.1		ng/L	P441876	
		Etridiazole	0.10	U	ng/L	P441876	
		Fenamiphos	0.46	U	ng/L	P441876	
		Fenbuconazole	0.51	U	ng/L	P441876	
		Fipronil	0.38	I	ng/L	P441876	
		Fipronil Desulfinyl**	0.23	I	ng/L	P441876	
		Fipronil Sulfide	0.37	I	ng/L	P441876	
		Fipronil Sulfone	0.44	I	ng/L	P441876	
		Fluazifop-P-butyl	0.10	U	ng/L	P441876	
		Fludioxonil	0.10	U	ng/L	P441876	
		Flumioxazin	3.1	U	ng/L	P441876	
		Flutolanil	0.10	U	ng/L	P441876	
		Fluxapyroxad	0.28	I	ng/L	P441876	
		Fonofos	0.15	U	ng/L	P441876	
		Hexazinone	0.51	U	ng/L	P441876	
		Imazalil	0.66	U	ng/L	P441876	
		Iprodione	0.51	U	ng/L	P441876	MS, RPD
		Loratadine**	0.31	U	ng/L	P441876	

Field ID: 20030679

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469633	EPA 8270E	Malathion	0.36	U	ng/L	P441876	MS, RPD
		Metalaxyl	1.6	I	ng/L	P441876	
		Metolachlor	15		ng/L	P441876	
		Metribuzin	13		ng/L	P441876	
		Mevinphos	1.0	U	ng/L	P441876	
		Molinate	0.26	U	ng/L	P441876	
		Myclobutanil	0.72	I	ng/L	P441876	
		Naled	2.6	U	ng/L	P441876	
		Napropamide	0.72	U	ng/L	P441876	
		Norflurazon	1.0	U	ng/L	P441876	
		Oxadiazon	2.0		ng/L	P441876	
		Oxyfluorfen	0.20	U	ng/L	P441876	
		Parathion Ethyl	0.15	U	ng/L	P441876	
		Parathion Methyl	0.20	U	ng/L	P441876	
		Pendimethalin	1.7	U	ng/L	P441876	
		Phenytol**	5.4	U	ng/L	P441876	
		Phorate	0.26	U	ng/L	P441876	
		Prodiamine	0.96	I	ng/L	P441876	
		Prometon	4.2	I	ng/L	P441876	
		Prometryn	0.36	U	ng/L	P441876	
		Pronamide	0.10	U	ng/L	P441876	
		Propanil	0.10	U	ng/L	P441876	
		Propargite	0.82	U	ng/L	P441876	
		Propiconazole	0.61	U	ng/L	P441876	
		Pyraflufen Ethyl	0.31	U	ng/L	P441876	
		Pyridaben	1.4	U	ng/L	P441876	
		Pyriproxyfen	0.26	U	ng/L	P441876	
		Simazine	5.1		ng/L	P441876	
		Stirophos	0.41	U	ng/L	P441876	
		Sulfentrazone	1.4	U	ng/L	P441876	MS
		Tebuconazole	4.5	I	ng/L	P441876	
		Terbufos	0.20	U	ng/L	P441876	MS, RPD
		Terbutylazine	0.20	U	ng/L	P441876	
		Thiobencarb	0.51	U	ng/L	P441876	
		Triadimefon	0.15	U	ng/L	P441876	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: J - Estimation for azoxystrobin due to internal standard recovery exceeding control limits. MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.

Sample Location: BIG POTTSBURG CR HOGAN RD BR

Collection Date/Time: 02/15/2024 11:35

Field ID: 20030067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469639	EPA 200.7 Rev. 4.4	Calcium	53.7		mg/L	P441649	
		Iron	510		ug/L	P441649	
		Magnesium	36.2		mg/L	P441649	
		Potassium	10.7		mg/L	P441649	
		Sodium	253		mg/L	P441649	
		Strontium	558		ug/L	P441649	
		Tin	3.0	U	ug/L	P441649	
		Titanium	0.75	U	ug/L	P441649	
		Vanadium	2.0	U	ug/L	P441649	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P441649	
		Aluminum	54		ug/L	P441649	
		Antimony	0.16	I	ug/L	P441649	
		Arsenic	0.80		ug/L	P441649	
		Barium	35.3		ug/L	P441649	
		Beryllium	0.015	I	ug/L	P441649	
		Boron	124		ug/L	P441649	
		Cadmium	0.020	U	ug/L	P441649	
		Chromium	0.76	I	ug/L	P441649	
		Cobalt	0.101		ug/L	P441649	
		Copper	1.05		ug/L	P441649	
		Lead	0.31	I	ug/L	P441649	
		Manganese	26.7		ug/L	P441649	
		Molybdenum	0.73		ug/L	P441649	
		Nickel	1.0	I	ug/L	P441649	
		Selenium	0.20	U	ug/L	P441649	
		Silver	0.010	U	ug/L	P441649	
		Thallium	0.10	U	ug/L	P441649	
	SM 2340 B-2011	Hardness	283		mg/L	P441649	

Sample Location: HOGPEN CR AT SAN PABLO ROAD

Collection Date/Time: 02/15/2024 09:30

Field ID: 20030696					Matrix: W-SURF-FRH		
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469614	DEP SOP: NU-094-1	Color (true)	54	A	PCU	P441576	
	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P441586	
	EPA 300.0 Rev. 2.1	Chloride	450		mg Cl/L	P442057	
		Sulfate	93		mg SO4/L	P442061	
	SM 2320 B-2011	Total Alkalinity	91		mg CaCO3/L	P442206	
	SM 2540 C-2015	TDS	974		mg/L	P441984	
	SM 2540 D-2015	TSS	4	I	mg/L	P441934	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P442210	
2469615	EPA 350.1 Rev. 2.0	Ammonia-N	0.091		mg N/L	P441962	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P441812	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.25		mg N/L	P441778	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P441720	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P441950	

Ref. Method and Comment:
SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 1806 umhos/cm.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: HOPKINS CR AT FLORIDA BLVD

Collection Date/Time: 02/15/2024 09:55

Field ID: 20030698

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469612	DEP SOP: NU-094-1	Color (true)	51		PCU	P441576	
	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P441586	
	EPA 300.0 Rev. 2.1	Chloride	2.2E+03		mg Cl/L	P442057	
		Sulfate	330		mg SO4/L	P442061	
	SM 2320 B-2011	Total Alkalinity	118		mg CaCO3/L	P442206	
	SM 2540 C-2015	TDS	3.69E+03		mg/L	P441984	
	SM 2540 D-2015	TSS	6	I	mg/L	P441934	
2469613	SM 4500-F- C-2011	Fluoride	0.25		mg F/L	P442210	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.38		mg N/L	P441966	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P441666	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P441909	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P441660	
2469638	SM 5310 B-2014	Organic Carbon	14		mg C/L	P441950	
	EPA 200.7 Rev. 4.4	Calcium	90.9		mg/L	P441649	
		Iron	440		ug/L	P441649	
		Magnesium	145		mg/L	P441649	
		Potassium	44		mg/L	P441649	
		Sodium	1.18E+03		mg/L	P441649	
		Strontium	954		ug/L	P441649	
		Tin	30	U	ug/L	P441649	
		Titanium	7.5	U	ug/L	P441649	
		Vanadium	20	U	ug/L	P441649	
		Zinc	50	U	ug/L	P441649	
	EPA 200.8 Rev. 5.4	Aluminum	203		ug/L	P441649	
		Antimony	0.16	I	ug/L	P441649	
		Arsenic	1.16		ug/L	P441649	
		Barium	21.9		ug/L	P441649	
		Beryllium	0.018	I	ug/L	P441649	
		Boron	489		ug/L	P441649	
		Cadmium	0.020	U	ug/L	P441649	
		Chromium	1.0	I	ug/L	P441649	
		Cobalt	0.116		ug/L	P441649	
		Copper	1.17		ug/L	P441649	
		Lead	0.62		ug/L	P441649	
		Manganese	19.2		ug/L	P441649	
		Molybdenum	1.23		ug/L	P441649	
		Nickel	0.50	U	ug/L	P441649	
		Selenium	0.20	I	ug/L	P441649	
		Silver	0.010	U	ug/L	P441649	
		Thallium	0.10	U	ug/L	P441649	
	SM 2340 B-2011	Hardness	825		mg/L	P441649	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: GREENFIELD END OF BUCANEER DR

Collection Date/Time: 02/15/2024 10:30

Field ID: G2NE1154

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469640	EPA 200.7 Rev. 4.4	Calcium	246		mg/L	P441648	
		Iron	250	I	ug/L	P441648	
		Magnesium	740		mg/L	P441648	
		Potassium	220		mg/L	P441648	
		Sodium	6.00E+03		mg/L	P441648	
		Strontium	3.84E+03		ug/L	P441648	
		Tin	30	U	ug/L	P441648	
		Titanium	7.5	U	ug/L	P441648	
		Vanadium	20	U	ug/L	P441648	
		Zinc	50	U	ug/L	P441648	
	EPA 200.8 Rev. 5.4	Aluminum	339		ug/L	P441648	
		Antimony	0.20	U	ug/L	P441648	
		Arsenic	1.89		ug/L	P441648	
		Barium	16.5		ug/L	P441648	
		Beryllium	0.040	U	ug/L	P441648	
		Boron	2.72E+03		ug/L	P441648	
		Cadmium	0.080	U	ug/L	P441648	
		Chromium	4.0	U	ug/L	P441648	
		Cobalt	1.13		ug/L	P441648	
		Copper	1.6	U	ug/L	P441648	
		Lead	2.0	U	ug/L	P441648	
		Manganese	12.4		ug/L	P441648	
		Molybdenum	7.8		ug/L	P441648	
		Nickel	2.0	U	ug/L	P441648	
		Selenium	0.80	U	ug/L	P441648	
		Silver	0.040	U	ug/L	P441648	
		Thallium	1.0	U	ug/L	P441648	
	SM 2340 B-2011	Hardness	3.66E+03		mg/L	P441648	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium, sodium and strontium are unavailable because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample.

Sample Location: STJOHNS RIVER AT REDDIE POINT
PRESERVE DOCK

Collection Date/Time: 02/15/2024 11:15

Field ID: G2NE1231

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469610	DEP SOP: NU-094-1	Color (true)	110		PCU	P441576	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P441586	
	EPA 300.0 Rev. 2.1	Chloride	4.6E+03		mg Cl/L	P442057	
		Sulfate	660		mg SO4/L	P442061	
	SM 2320 B-2011	Total Alkalinity	74		mg CaCO3/L	P442205	
	SM 2540 C-2015	TDS	7.61E+03		mg/L	P441984	
	SM 2540 D-2015	TSS	17		mg/L	P441934	
	SM 4500-F- C-2011	Fluoride	0.36		mg F/L	P442483	
2469611	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P441754	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P441813	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.26		mg N/L	P441909	
	EPA 365.1 Rev. 2.0	Total-P	0.093		mg P/L	P441660	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P441950	
2469637	EPA 200.7 Rev. 4.4	Calcium	115		mg/L	P441648	
		Iron	560		ug/L	P441648	
		Magnesium	290		mg/L	P441648	
		Potassium	105		mg/L	P441648	
		Sodium	2.91E+03		mg/L	P441648	
		Strontium	2.03E+03		ug/L	P441648	
		Tin	9.0	U	ug/L	P441648	
		Titanium	4.9	I	ug/L	P441648	
		Vanadium	6.0	U	ug/L	P441648	
		Zinc	15	U	ug/L	P441648	
	EPA 200.8 Rev. 5.4	Aluminum	105		ug/L	P441648	
		Antimony	0.27	I	ug/L	P441648	
		Arsenic	1.88		ug/L	P441648	
		Barium	35.9		ug/L	P441648	
		Beryllium	0.040	U	ug/L	P441648	
		Boron	2.24E+03		ug/L	P441648	
		Cadmium	0.080	U	ug/L	P441648	
		Chromium	4.0	U	ug/L	P441648	
		Cobalt	0.13	I	ug/L	P441648	
		Copper	1.6	U	ug/L	P441648	
		Lead	2.0	U	ug/L	P441648	
		Manganese	28.1		ug/L	P441648	
		Molybdenum	6.9		ug/L	P441648	
		Nickel	2.1	I	ug/L	P441648	
		Selenium	0.80	U	ug/L	P441648	
		Silver	0.040	U	ug/L	P441648	
		Thallium	1.0	U	ug/L	P441648	
	SM 2340 B-2011	Hardness	1.48E+03		mg/L	P441648	

Field ID: G2NE1231

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium, sodium and strontium are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P441576

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441586

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441648

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441649

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Component	Result	Code	Units
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441649

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442057

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442061

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441754

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441754

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441962

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441966

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441666

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441812

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441813

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441814

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441778

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441909

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442391

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441660

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441720

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P441759

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441759

Component	Result	Code	Units
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P441876

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441876

Component	Result	Code	Units
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441876

Component	Result	Code	Units
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8276

Batch ID: P441759

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P441467

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B

Batch ID: P441572

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P441572

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P441664

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P442205

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2320 B-2011
Batch ID: P442206

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2015
Batch ID: P441984

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P441934

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P442210

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P442483

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P441950

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P441576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.4		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	103		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441648

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	97.9		P	85 - 115
Iron	110		P	80 - 120
Magnesium	97.5		P	85 - 115
Potassium	95.5		P	85 - 115
Sodium	96.4		P	85 - 115
Strontium	100		P	80 - 120
Tin	96.1		P	80 - 120
Titanium	100		P	80 - 120
Vanadium	98.1		P	80 - 120
Zinc	95.1		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	107		P	85 - 115
Iron	113		P	85 - 115
Magnesium	113		P	85 - 115
Potassium	105		P	85 - 115
Sodium	106		P	85 - 115
Strontium	103		P	85 - 115
Tin	99.1		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	99.4		P	85 - 115
Arsenic	98.9		P	85 - 115
Barium	101		P	85 - 115
Beryllium	88.8		P	85 - 115
Boron	110		P	85 - 115
Cadmium	99.0		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	96.1		P	85 - 115
Copper	94.6		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	94.9		P	85 - 115
Manganese	99.3		P	85 - 115
Molybdenum	97.8		P	85 - 115
Nickel	95.8		P	85 - 115
Selenium	100		P	85 - 115
Silver	96.7		P	85 - 115
Thallium	97.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.5		P	85 - 115
Antimony	99.9		P	85 - 115
Arsenic	98.4		P	85 - 115
Barium	101		P	85 - 115
Beryllium	93.6		P	85 - 115
Boron	97.0		P	85 - 115
Cadmium	99.4		P	85 - 115
Chromium	102		P	85 - 115
Cobalt	97.9		P	85 - 115
Copper	95.9		P	85 - 115
Lead	92.7		P	85 - 115
Manganese	97.9		P	85 - 115
Molybdenum	97.4		P	85 - 115
Nickel	97.6		P	85 - 115
Selenium	99.0		P	85 - 115
Silver	96.3		P	85 - 115
Thallium	95.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442057

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442061

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441812

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441813

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	102		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442391

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441660

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	100		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441759

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.1		P	30 - 96.0
Alpha-BHC	88.9		P	70 - 109
Alpha-Chlordane	79.6		P	45 - 107
Beta-BHC	84.9		P	64 - 138
Beta-Cyfluthrin	65.4		P	17 - 141
Bifenthrin	52.9		P	10 - 113
Chlorothalonil	64.5		P	26 - 180
Cis-Nonachlor	72.0		P	37 - 102
Cypermethrin	60.0		P	20 - 133
Dacthal	95.8		P	69 - 114
DDD-p,p'	59.8		P	42 - 105
DDE-p,p'	60.1		P	42 - 106
DDT-p,p'	77.3		P	42 - 107
Delta-BHC	90.2		P	67 - 144
Deltamethrin	83.0		P	15 - 149
Dichlobenil	81.5		P	46 - 117
Dicofol	70.3		P	34 - 114
Dieldrin	61.0		P	50 - 108
Endosulfan I	64.3		P	55 - 104
Endosulfan II	65.1		P	51 - 111
Endosulfan Sulfate	88.5		P	56 - 121
Endrin	69.8		P	10 - 106
Endrin Aldehyde	70.9		P	34 - 114
Endrin Ketone	74.2		P	63 - 177
Esfenvalerate	71.4		P	29 - 143
Ethalfuralin	71.3		P	46 - 96.0
Fenpropathrin	78.3		P	28 - 115
Gamma-BHC	94.7		P	65 - 121
Gamma-Chlordane	77.5		P	39 - 103
Heptachlor	68.3		P	39 - 94.0
Heptachlor Epoxide	95.0		P	54 - 104
Hexachlorobenzene	65.1		P	36 - 100
Kepone	70.9		P	10 - 225
Lambda-Cyhalothrin	27.3		P	10 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441759

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoprene	42.3		P	10 - 109
Methoxychlor	77.8		P	52 - 112
MGK-264	83.1		P	44 - 117
Mirex	54.7		P	20 - 90.0
Oxychlordane	79.2		P	44 - 102
PCB-1016	72.7		P	45 - 107
PCB-1260	87.4		P	40 - 112
Permethrin	66.3		P	18 - 135
Phenothrin	41.2		P	10 - 102
Piperonyl Butoxide	86.4		P	28 - 156
Prallethrin	56.7		P	28 - 113
Tau-Fluvalinate	53.5		P	10 - 123
Tetramethrin	82.7		P	18 - 158
Trans-Nonachlor	74.3		P	39 - 104
Triclosan Methyl	89.4		P	54 - 108
Trifluralin	72.2		P	46 - 97.0

Reference Method: EPA 8270E
Batch ID: P441876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	54.0		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.1		P	37 - 154
Acetochlor	104		P	64 - 124
Alachlor	90.0		P	61 - 118
Ametryn	97.6		P	47 - 158
Atrazine	93.9		P	68 - 121
Atrazine Desethyl	81.2		P	30 - 119
Avobenzone	124		P	48 - 193
Azinphos Methyl	129		P	30 - 194
Azoxystrobin	93.2		P	58 - 154
Bromacil	108		P	47 - 126
Butylate	58.4		P	31 - 83.0
Caffeine	98.9		P	10 - 180
Carbophenothion	80.5		P	59 - 133
Carfentrazone Ethyl	90.3		P	59 - 147
Chlorfenapyr	78.4		P	52 - 118
Chlorpyrifos Ethyl	102		P	59 - 119
Chlorpyrifos Methyl	103		P	65 - 123
Coumaphos	105		P	11 - 223
Cyanazine	103		P	63 - 250
Cyprodinil	86.5		P	52 - 143
Dechlorane 602	95.4		P	23 - 142
Dechlorane 603	107		P	51 - 171
Dechlorane Plus	94.8		P	46 - 161
Demeton	87.3		P	42 - 119
Diazinon	104		P	67 - 132
Difenoconazole	74.2		P	12 - 204
Dimethenamid	102		P	53 - 113
Dimethomorph	95.4		P	13 - 238
Disulfoton	92.0		P	56 - 126
Dithiopyr	95.4		P	58 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	55.2		P	31 - 78.0
Ethion	86.9		P	24 - 127
Ethoprop	83.4		P	60 - 118
Etridiazole	70.1		P	32 - 91.0
Fenamiphos	97.9		P	54 - 129
Fenbuconazole	64.1		P	31 - 162
Fipronil	101		P	56 - 131
Fipronil Desulfinyl	83.4		P	58 - 132
Fipronil Sulfide	89.7		P	51 - 123
Fipronil Sulfone	86.9		P	50 - 125
Fluazifop-P-butyl	79.0		P	52 - 132
Fludioxonil	79.1		P	52 - 129
Flumioxazin	168		P	34 - 250
Flutolanil	85.5		P	45 - 128
Fluxapyroxad	107		P	31 - 150
Fonofos	83.0		P	60 - 116
Hexabromobenzene	93.8		P	52 - 165
Hexazinone	97.3		P	59 - 120
Imazalil	80.1		P	39 - 134
Iprodione	104		P	39 - 243
Loratadine	80.5		P	10 - 240
Malathion	123		P	53 - 145
Metalaxyl	90.6		P	59 - 120
Metolachlor	84.3		P	64 - 122
Metribuzin	95.8		P	33 - 128
Mevinphos	111		P	48 - 119
Molinate	66.9		P	42 - 89.0
Myclobutanil	103		P	54 - 129
Naled	79.3		P	10 - 138
Napropamide	73.6		P	40 - 122
Norflurazon	79.5		P	49 - 132
Octinoxate	98.1		P	29 - 176
Oxadiazon	78.0		P	50 - 115
Oxybenzone	96.3		P	45 - 145
Oxyfluorfen	107		P	62 - 149
Parathion Ethyl	92.8		P	68 - 119
Parathion Methyl	98.8		P	68 - 147
PBB-153	97.7		P	42 - 179
PBDE-47	103		P	44 - 141
PBDE-99	102		P	36 - 141
Pendimethalin	118		P	59 - 158
Pentabromotoluene	84.1		P	58 - 148
Phenytoin	94.8		P	10 - 151
Phorate	75.5		P	44 - 124
Prodiamine	118		P	10 - 136
Prometon	112		P	45 - 131
Prometryn	110		P	52 - 140
Pronamide	109		P	70 - 129
Propanil	86.2		P	54 - 144
Propargite	81.5		P	10 - 191
Propiconazole	89.2		P	49 - 128
Pyraflufen Ethyl	84.5		P	46 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyridaben	110		P	29 - 198
Pyriproxyfen	103		P	33 - 221
Simazine	100		P	62 - 119
Stirophos	88.1		P	13 - 144
Sulfentrazone	102		P	12 - 152
Tebuconazole	85.2		P	10 - 135
Terbufos	85.3		P	67 - 136
Terbutylazine	91.4		P	66 - 113
Tetradecachloro-m-terphenyl	80.5		P	30 - 235
Thiobencarb	104		P	51 - 125
Tri-o-cresyl Phosphate	107		P	50 - 150
Triadimefon	73.7		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.4		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	108		P	59 - 166

Reference Method: EPA 8276
Batch ID: P441759

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.3		P	52 - 117
Toxaphene	70.5		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P441467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	77.1		P	40 - 150
Aldicarb	61.3		P	30 - 150
Aldicarb Sulfone	91.5		P	40 - 150
Aldicarb Sulfoxide	120		P	40 - 150
Carbaryl	80.3		P	40 - 150
Carbofuran	81.1		P	40 - 150
Methiocarb	69.0		P	40 - 150
Methomyl	89.3		P	40 - 150
Oxamyl	97.5		P	40 - 150
Propoxur	79.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441572

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	124		P	40 - 150
AMPA	103		P	40 - 160
Endothall	87.1		P	40 - 160
Glufosinate	90.3		P	40 - 160
Glyphosate	99.3		P	40 - 160
Sucralose	98.4		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	111		P	40 - 150
2,4,5-T	98.6		P	40 - 150
Acetaminophen	81.5		P	30 - 150
Acetamiprid	73.9		P	40 - 150
Afidopyropen	58.5		P	30 - 150
Bentazon	103		P	30 - 150
Benzovindiflupyr	82.2		P	40 - 150
Carbamazepine	84.4		P	40 - 150
Clothianidin	88.0		P	40 - 150
Dinotefuran	97.3		P	40 - 150
Diuron	88.5		P	40 - 150
Fenuron	91.1		P	40 - 150
Fluridone	92.9		P	40 - 150
Hydrocodone	88.2		P	40 - 150
Ibuprofen	63.5		P	40 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	87.7		P	40 - 150
Linuron	84.9		P	40 - 150
Mandestrobin	75.9		P	40 - 150
MCPP	90.2		P	40 - 150
Naproxen	101		P	40 - 150
Primidone	82.9		P	40 - 150
Pyraclostrobin	82.4		P	40 - 150
Silvex	100		P	40 - 150
Thiamethoxam	86.7		P	40 - 150
Tolfenpyrad	51.2		P	30 - 150
Triclopyr	103		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P442205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P442206

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P441984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P441934

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.0		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P442210

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P442483

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441950

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441648

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469637	Iron	98.6	97.7	P/P	70 - 130
2469637	Tin	81.0	80.6	P/P	70 - 130
2469637	Titanium	81.6	80.3	P/P	70 - 130
2469637	Vanadium	88.7	87.4	P/P	70 - 130
2469637	Zinc	85.4	84.3	P/P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469594	Calcium	102		P	80 - 120
2469594	Iron	111	110	P/P	80 - 120
2469594	Magnesium	109	108	P/P	80 - 120
2469594	Potassium	103	101	P/P	80 - 120
2469594	Sodium	104		P	80 - 120
2469594	Strontium	100	101	P/P	80 - 120
2469594	Tin	94.4	94.2	P/P	80 - 120
2469594	Titanium	98.0	99.1	P/P	80 - 120
2469594	Vanadium	100	99.4	P/P	80 - 120
2469594	Zinc	99.6	100	P/P	80 - 120
2469641	Calcium	99.8		P	80 - 120
2469641	Iron	110		P	80 - 120
2469641	Magnesium	103		P	80 - 120
2469641	Potassium	102		P	80 - 120
2469641	Sodium	102		P	80 - 120
2469641	Strontium	99.3		P	80 - 120
2469641	Tin	95.2		P	80 - 120
2469641	Titanium	97.9		P	80 - 120
2469641	Vanadium	99.3		P	80 - 120
2469641	Zinc	97.0		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468567	Aluminum	93.1	104	P/P	70 - 130
2468567	Antimony	101	103	P/P	70 - 130
2468567	Arsenic	110	112	P/P	70 - 130
2468567	Barium	102	103	P/P	70 - 130
2468567	Beryllium	100	96.4	P/P	70 - 130
2468567	Cadmium	98.0	103	P/P	70 - 130
2468567	Chromium	106	111	P/P	70 - 130
2468567	Cobalt	102	103	P/P	70 - 130
2468567	Copper	98.6	101	P/P	70 - 130
2468567	Lead	104	105	P/P	70 - 130
2468567	Manganese	96.8	98.9	P/P	70 - 130
2468567	Molybdenum	112	114	P/P	70 - 130
2468567	Nickel	104	107	P/P	70 - 130
2468567	Selenium	106	108	P/P	70 - 130
2468567	Silver	88.7	90.7	P/P	70 - 130
2468567	Thallium	106	108	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469594	Aluminum	94.5	94.8	P/P	80 - 120
2469594	Antimony	99.3	99.2	P/P	80 - 120
2469594	Arsenic	97.1	96.9	P/P	80 - 120
2469594	Barium	99.0	98.3	P/P	80 - 120
2469594	Beryllium	96.7	95.3	P/P	80 - 120
2469594	Boron	96.7	99.0	P/P	80 - 120
2469594	Cadmium	98.2	97.2	P/P	80 - 120
2469594	Chromium	101	99.8	P/P	80 - 120
2469594	Cobalt	97.1	95.7	P/P	80 - 120
2469594	Copper	94.3	93.2	P/P	80 - 120
2469594	Lead	93.1	92.3	P/P	80 - 120
2469594	Manganese	94.9	94.0	P/P	80 - 120
2469594	Molybdenum	98.1	97.3	P/P	80 - 120
2469594	Nickel	96.9	95.6	P/P	80 - 120
2469594	Selenium	97.6	97.8	P/P	80 - 120
2469594	Silver	91.9	92.1	P/P	80 - 120
2469594	Thallium	97.9	97.3	P/P	80 - 120
2469641	Aluminum	97.0		P	80 - 120
2469641	Antimony	99.6		P	80 - 120
2469641	Arsenic	96.9		P	80 - 120
2469641	Barium	97.9		P	80 - 120
2469641	Beryllium	89.7		P	80 - 120
2469641	Boron	98.0		P	80 - 120
2469641	Cadmium	94.9		P	80 - 120
2469641	Chromium	103		P	80 - 120
2469641	Cobalt	96.5		P	80 - 120
2469641	Copper	94.1		P	80 - 120
2469641	Lead	91.3		P	80 - 120
2469641	Manganese	90.5		P	80 - 120
2469641	Molybdenum	96.3		P	80 - 120
2469641	Nickel	96.3		P	80 - 120
2469641	Selenium	99.5		P	80 - 120
2469641	Silver	90.6		P	80 - 120
2469641	Thallium	96.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469588	Chloride	103		P	90 - 110
2469797	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442061

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469588	Sulfate	104		P	90 - 110
2469797	Sulfate	104		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471010	Chloride	99.1		P	90 - 110
2471193	Chloride	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469409	Ammonia-N	97.2	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469803	Ammonia-N	97.8	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471208	Ammonia-N	96.8	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468603	Kjeldahl Nitrogen	95.1	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441812

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469398	Kjeldahl Nitrogen	99.3	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441813

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469979	Kjeldahl Nitrogen	108	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469804	Kjeldahl Nitrogen	106	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469615	NO2NO3-N	100		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469500	NO2NO3-N	98.8	99.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442391

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469609	NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441660

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469472	Total-P	95.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469803	Total-P	101	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469168	Aldrin	71.5	73.9	P/P	24 - 81.0
2469168	Alpha-BHC	92.6	89.3	P/P	65 - 110
2469168	Alpha-Chlordane	101	110	P/P	43 - 119
2469168	Beta-BHC	93.3	91.2	P/P	54 - 165
2469168	Beta-Cyfluthrin	93.4	106	P/P	27 - 165
2469168	Bifenthrin	118	116	F/P	17 - 117
2469168	Chlorothalonil	139	112	P/P	10 - 255
2469168	Cis-Nonachlor	97.8	83.8	P/P	34 - 98.0
2469168	Cypermethrin	80.9	90.3	P/P	25 - 143
2469168	Dacthal	115	123	P/P	55 - 139
2469168	DDD-p,p'	70.4	73.1	P/P	30 - 109
2469168	DDE-p,p'	70.0	75.5	P/P	35 - 106
2469168	DDT-p,p'	79.3	83.1	P/P	41 - 101
2469168	Delta-BHC	114	118	P/P	58 - 165
2469168	Deltamethrin	143	96.4	P/P	10 - 194
2469168	Dichlobenil	55.8	63.8	P/P	22 - 114
2469168	Dicofol	80.2	82.3	P/P	17 - 133
2469168	Dieldrin	71.5	75.3	P/P	45 - 129
2469168	Endosulfan I	69.2	74.2	P/P	49 - 104
2469168	Endosulfan II	71.1	74.3	P/P	37 - 117
2469168	Endosulfan Sulfate	80.4	84.3	P/P	38 - 128
2469168	Endrin	73.2	80.7	P/P	35 - 116
2469168	Endrin Aldehyde	43.2	46.8	P/P	19 - 108
2469168	Endrin Ketone	72.3	82.5	P/P	44 - 134
2469168	Esfenvalerate	129	130	P/P	27 - 176
2469168	Ethalfuralin	76.8	82.8	P/P	49 - 100
2469168	Fenpropathrin	113	113	P/P	34 - 117
2469168	Gamma-BHC	104	95.1	P/P	59 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P441759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469168	Gamma-Chlordane	104	104	P/P	33 - 107
2469168	Heptachlor	97.2	82.1	F/P	37 - 94.0
2469168	Heptachlor Epoxide	103	116	P/P	38 - 118
2469168	Hexachlorobenzene	77.5	80.8	P/P	35 - 97.0
2469168	Kepone	65.1	77.9	P/P	10 - 221
2469168	Lambda-Cyhalothrin	51.2	57.0	P/P	23 - 190
2469168	Methoprene	79.6	81.7	P/P	21 - 109
2469168	Methoxychlor	91.2	94.7	P/P	46 - 118
2469168	MGK-264	102	106	P/P	39 - 122
2469168	Mirex	79.5	80.0	P/P	25 - 90.0
2469168	Oxychlordane	132	130	F/F	42 - 100
2469168	Permethrin	89.1	94.1	P/P	33 - 181
2469168	Phenothrin	114	125	P/F	12 - 125
2469168	Piperonyl Butoxide	79.9	84.8	P/P	10 - 178
2469168	Prallethrin	61.7	63.3	P/P	24 - 122
2469168	Tau-Fluvalinate	102	112	P/P	13 - 151
2469168	Tetramethrin	126	126	P/P	16 - 172
2469168	Trans-Nonachlor	78.3	84.6	P/P	39 - 100
2469168	Triclosan Methyl	104	110	P/P	43 - 110
2469168	Trifluralin	79.7	73.9	P/P	45 - 94.0
2469632	PCB-1016	82.1	76.8	P/P	45 - 107
2469632	PCB-1260	95.9	94.1	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P441876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469595	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	51.5	90.5	P/P	50 - 150
2469595	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.6	100	P/P	29 - 155
2469595	Acetochlor	107	105	P/P	60 - 124
2469595	Alachlor	80.3	92.3	P/P	54 - 122
2469595	Ametryn	125	118	P/P	51 - 208
2469595	Atrazine Desethyl	101	100	P/P	13 - 124
2469595	Avobenzone	114	117	P/P	35 - 187
2469595	Azinphos Methyl	105	103	P/P	43 - 276
2469595	Azoxystrobin	99.8	105	P/P	52 - 300
2469595	Bromacil	111	104	P/P	44 - 134
2469595	Butylate	62.1	62.6	P/P	23 - 82.0
2469595	Caffeine	104	111	P/P	10 - 277
2469595	Carbophenothion	73.4	83.4	P/P	47 - 135
2469595	Carfentrazone Ethyl	74.4	73.3	P/P	46 - 147
2469595	Chlorfenapyr	74.4	84.6	P/P	43 - 114
2469595	Chlorpyrifos Ethyl	115	110	P/P	47 - 124
2469595	Chlorpyrifos Methyl	123	108	P/P	60 - 135
2469595	Coumaphos	97.4	121	P/P	10 - 222
2469595	Cyanazine	100	111	P/P	10 - 257
2469595	Cyprodinil	95.9	113	P/P	42 - 148
2469595	Dechlorane 602	64.4	81.5	P/P	14 - 133
2469595	Dechlorane 603	84.4	93.6	P/P	18 - 191
2469595	Dechlorane Plus	75.9	80.4	P/P	23 - 154
2469595	Demeton	119	107	P/P	41 - 137
2469595	Diazinon	134	120	P/P	64 - 139

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469595	Difenoconazole	82.2	88.6	P/P	46 - 254
2469595	Dimethenamid	110	107	P/P	47 - 117
2469595	Dimethomorph	115	128	P/P	14 - 255
2469595	Disulfoton	123	113	P/P	52 - 130
2469595	Dithiopyr	107	102	P/P	40 - 121
2469595	EPTC	58.6	58.9	P/P	19 - 78.0
2469595	Ethion	72.4	87.7	P/P	12 - 124
2469595	Ethoprop	95.3	92.4	P/P	68 - 144
2469595	Etridiazole	71.6	62.0	P/P	26 - 96.0
2469595	Fenamiphos	75.3	92.0	P/P	41 - 129
2469595	Fenbuconazole	58.4	74.5	P/P	26 - 169
2469595	Fipronil	112	104	P/P	46 - 145
2469595	Fipronil Desulfinyl	97.5	83.2	P/P	47 - 136
2469595	Fipronil Sulfide	99.8	93.6	P/P	41 - 127
2469595	Fipronil Sulfone	77.6	90.4	P/P	35 - 133
2469595	Fluazifop-P-butyl	72.7	84.3	P/P	46 - 131
2469595	Fludioxonil	73.1	81.4	P/P	51 - 124
2469595	Flumioxazin	132	143	P/P	10 - 289
2469595	Flutolanil	60.4	74.6	P/P	34 - 130
2469595	Fluxapyroxad	104	123	P/P	10 - 197
2469595	Fonofos	91.1	96.6	P/P	42 - 131
2469595	Hexabromobenzene	107	99.8	P/P	47 - 178
2469595	Hexazinone	110	112	P/P	64 - 125
2469595	Imazalil	110	85.7	P/P	37 - 252
2469595	Iprodione	48.9	11.7	P/F	34 - 265
2469595	Loratadine	81.4	97.4	P/P	20 - 231
2469595	Malathion	26.3	76.4	F/P	34 - 164
2469595	Metalaxyl	98.1	102	P/P	49 - 125
2469595	Metolachlor	69.6	88.3	P/P	54 - 125
2469595	Metribuzin	108	105	P/P	51 - 139
2469595	Mevinphos	115	90.6	P/P	46 - 130
2469595	Molinate	76.7	78.3	P/P	39 - 93.0
2469595	Myclobutanil	113	110	P/P	50 - 130
2469595	Naled	83.5	59.7	P/P	10 - 150
2469595	Napropamide	62.1	77.7	P/P	10 - 109
2469595	Norflurazon	67.1	82.6	P/P	36 - 134
2469595	Octinoxate	89.3	89.7	P/P	18 - 170
2469595	Oxadiazon	72.3	82.4	P/P	43 - 112
2469595	Oxybenzone	87.3	86.6	P/P	33 - 154
2469595	Oxyfluorfen	125	118	P/P	62 - 154
2469595	Parathion Ethyl	101	106	P/P	65 - 120
2469595	Parathion Methyl	115	117	P/P	77 - 185
2469595	PBB-153	91.2	97.1	P/P	23 - 193
2469595	PBDE-47	86.5	92.3	P/P	31 - 139
2469595	PBDE-99	82.2	90.2	P/P	24 - 138
2469595	Pendimethalin	101	127	P/P	50 - 146
2469595	Pentabromotoluene	79.9	76.9	P/P	54 - 152
2469595	Phenytoin	30.1	35.6	P/P	10 - 157
2469595	Phorate	110	105	P/P	54 - 161
2469595	Prodiamine	107	113	P/P	29 - 160
2469595	Prometon	125	130	P/P	38 - 145
2469595	Prometryn	104	130	P/P	32 - 151

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469595	Pronamide	116	120	P/P	61 - 140
2469595	Propanil	77.5	88.7	P/P	50 - 147
2469595	Propargite	79.6	79.0	P/P	10 - 190
2469595	Propiconazole	95.4	112	P/P	30 - 146
2469595	Pyraflufen Ethyl	74.7	70.0	P/P	30 - 147
2469595	Pyridaben	106	133	P/P	15 - 195
2469595	Pyriproxyfen	103	118	P/P	31 - 218
2469595	Simazine	108	114	P/P	45 - 139
2469595	Stirophos	56.6	69.0	P/P	10 - 134
2469595	Sulfentrazone	30.3	31.4	F/F	53 - 186
2469595	Tebuconazole	80.3	97.9	P/P	10 - 133
2469595	Terbufos	102	106	P/P	65 - 151
2469595	Terbutylazine	91.0	97.8	P/P	62 - 117
2469595	Tetradecachloro-m-terphenyl	85.7	77.7	P/P	10 - 260
2469595	Thiobencarb	39.6	104	F/P	48 - 122
2469595	Tri-o-cresyl Phosphate	95.9	96.8	P/P	32 - 151
2469595	Triadimefon	91.5	77.8	P/P	46 - 124
2469595	Tris(1-chloro-2-propyl) phosphate (TCPP)	98.8	94.4	P/P	51 - 154
2469595	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.5	99.7	P/P	59 - 147
2469595	Tris(2-chloroethyl) phosphate (TCEP)	97.1	94.5	P/P	65 - 156

Reference Method: EPA 8276
Batch ID: P441759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469632	Chlordane	78.2	78.3	P/P	43 - 123
2469632	Toxaphene	72.1	83.1	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P441467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468562	3-Hydroxycarbofuran	78.8	72.9	P/P	40 - 150
2468562	Aldicarb	69.5	65.0	P/P	30 - 150
2468562	Aldicarb Sulfone	62.4	59.2	P/P	40 - 150
2468562	Aldicarb Sulfoxide	35.2	32.0	F/F	40 - 150
2468562	Carbaryl	62.1	65.6	P/P	40 - 150
2468562	Carbofuran	65.7	65.2	P/P	40 - 150
2468562	Methiocarb	64.9	64.3	P/P	40 - 150
2468562	Methomyl	73.5	71.9	P/P	40 - 150
2468562	Oxamyl	44.8	44.2	P/P	40 - 150
2468562	Propoxur	60.3	59.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469167	Acesulfame K	122	124	P/P	40 - 150
2469167	AMPA	101	103	P/P	40 - 160
2469167	Endothall	93.4	94.0	P/P	40 - 160
2469167	Glufosinate	88.5	88.6	P/P	40 - 160
2469167	Glyphosate	97.9	95.9	P/P	40 - 160

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P441572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469167	Sucralose	102	106	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469574	2,4-D	71.9	73.9	P/P	40 - 150
2469574	2,4,5-T	75.2	74.6	P/P	40 - 150
2469574	Acetaminophen	62.4	73.0	P/P	30 - 150
2469574	Acetamiprid	43.8	50.3	P/P	40 - 150
2469574	Afidopropen	56.1	57.8	P/P	30 - 150
2469574	Bentazon	51.7	51.6	P/P	30 - 150
2469574	Benzovindiflupyr	85.4	79.7	P/P	40 - 150
2469574	Carbamazepine	67.9	64.4	P/P	40 - 150
2469574	Clothianidin	61.2	61.3	P/P	40 - 150
2469574	Dinotefuran	53.4	61.5	P/P	40 - 150
2469574	Diuron	65.2	65.5	P/P	40 - 150
2469574	Fenuron	53.4	54.4	P/P	40 - 150
2469574	Fluridone	76.4	71.1	P/P	40 - 150
2469574	Hydrocodone	52.1	54.8	P/P	40 - 150
2469574	Ibuprofen	65.8	59.0	P/P	40 - 150
2469574	Imazapyr	95.5	87.2	P/P	40 - 150
2469574	Imidacloprid	67.1	68.1	P/P	40 - 150
2469574	Linuron	71.2	67.3	P/P	40 - 150
2469574	Mandestrobin	78.8	75.0	P/P	40 - 150
2469574	MCPP	75.0	70.0	P/P	40 - 150
2469574	Naproxen	89.5	76.3	P/P	40 - 150
2469574	Primidone	72.5	75.2	P/P	40 - 150
2469574	Pyraclostrobin	82.5	78.4	P/P	40 - 150
2469574	Silvex	79.0	77.2	P/P	40 - 150
2469574	Thiamethoxam	53.3	55.4	P/P	40 - 150
2469574	Tolfenpyrad	46.4	51.1	P/P	30 - 150
2469574	Triclopyr	75.0	74.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P442210

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470712	Fluoride	104	103	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P442483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469610	Fluoride	99.6	101	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441950

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469515	Organic Carbon	94.2	93.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P441576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469614	Color (true)	0.270	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469511	Turbidity	12.4	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469637	Calcium	2.55	Spike	P	0 - 20
2469637	Iron	0.819	Spike	P	0 - 20
2469637	Magnesium	2.45	Spike	P	0 - 20
2469637	Potassium	0.620	Spike	P	0 - 20
2469637	Sodium	1.36	Spike	P	0 - 20
2469637	Strontium	1.08	Spike	P	0 - 20
2469637	Tin	0.524	Spike	P	0 - 20
2469637	Titanium	1.46	Spike	P	0 - 20
2469637	Vanadium	1.47	Spike	P	0 - 20
2469637	Zinc	1.32	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469594	Calcium	0.150	Spike	P	0 - 20
2469594	Iron	0.329	Spike	P	0 - 20
2469594	Magnesium	0.607	Spike	P	0 - 20
2469594	Potassium	0.968	Spike	P	0 - 20
2469594	Sodium	0.113	Spike	P	0 - 20
2469594	Strontium	0.539	Spike	P	0 - 20
2469594	Tin	0.191	Spike	P	0 - 20
2469594	Titanium	1.05	Spike	P	0 - 20
2469594	Vanadium	0.612	Spike	P	0 - 20
2469594	Zinc	0.803	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468567	Aluminum	8.41	Spike	P	0 - 20
2468567	Antimony	1.81	Spike	P	0 - 20
2468567	Arsenic	1.54	Spike	P	0 - 20
2468567	Barium	0.623	Spike	P	0 - 20
2468567	Beryllium	4.01	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441648

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468567	Boron	3.12	Spike	P	0 - 20
2468567	Cadmium	4.84	Spike	P	0 - 20
2468567	Chromium	4.54	Spike	P	0 - 20
2468567	Cobalt	1.04	Spike	P	0 - 20
2468567	Copper	1.96	Spike	P	0 - 20
2468567	Lead	1.21	Spike	P	0 - 20
2468567	Manganese	1.81	Spike	P	0 - 20
2468567	Molybdenum	1.92	Spike	P	0 - 20
2468567	Nickel	2.76	Spike	P	0 - 20
2468567	Selenium	1.99	Spike	P	0 - 20
2468567	Silver	2.14	Spike	P	0 - 20
2468567	Thallium	1.65	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469594	Aluminum	0.347	Spike	P	0 - 20
2469594	Antimony	0.0518	Spike	P	0 - 20
2469594	Arsenic	0.156	Spike	P	0 - 20
2469594	Barium	0.607	Spike	P	0 - 20
2469594	Beryllium	1.46	Spike	P	0 - 20
2469594	Boron	1.92	Spike	P	0 - 20
2469594	Cadmium	0.980	Spike	P	0 - 20
2469594	Chromium	1.10	Spike	P	0 - 20
2469594	Cobalt	1.44	Spike	P	0 - 20
2469594	Copper	1.18	Spike	P	0 - 20
2469594	Lead	0.910	Spike	P	0 - 20
2469594	Manganese	0.824	Spike	P	0 - 20
2469594	Molybdenum	0.779	Spike	P	0 - 20
2469594	Nickel	1.31	Spike	P	0 - 20
2469594	Selenium	0.183	Spike	P	0 - 20
2469594	Silver	0.147	Spike	P	0 - 20
2469594	Thallium	0.644	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469588	Chloride	0.947	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442061

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469588	Sulfate	1.62	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471010	Chloride	0.498	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469409	Ammonia-N	0.638	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469803	Ammonia-N	0.533	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471208	Ammonia-N	0.385	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468603	Kjeldahl Nitrogen	0.101	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469398	Kjeldahl Nitrogen	3.00	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441813

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469979	Kjeldahl Nitrogen	0.0519	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469804	Kjeldahl Nitrogen	0.946	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469615	NO2NO3-N	0.897	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469500	NO2NO3-N	0.355	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469609	NO2NO3-N	0.701	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469472	Total-P	2.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469803	Total-P	2.87	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P441759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469168	Aldrin	3.29	Spike	P	0 - 41
2469168	Alpha-BHC	3.58	Spike	P	0 - 25
2469168	Alpha-Chlordane	8.15	Spike	P	0 - 32
2469168	Beta-BHC	2.30	Spike	P	0 - 33
2469168	Beta-Cyfluthrin	13.0	Spike	P	0 - 43
2469168	Bifenthrin	2.37	Spike	P	0 - 52
2469168	Chlorothalonil	21.3	Spike	P	0 - 82
2469168	Cis-Nonachlor	15.4	Spike	P	0 - 33
2469168	Cypermethrin	11.0	Spike	P	0 - 51
2469168	Dacthal	6.88	Spike	P	0 - 27
2469168	DDD-p,p'	3.77	Spike	P	0 - 39
2469168	DDE-p,p'	7.58	Spike	P	0 - 31
2469168	DDT-p,p'	3.57	Spike	P	0 - 29
2469168	Delta-BHC	3.50	Spike	P	0 - 35
2469168	Deltamethrin	38.7	Spike	P	0 - 100
2469168	Dichlobenil	13.2	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469168	Dicofol	2.70	Spike	P	0 - 37
2469168	Dieldrin	5.10	Spike	P	0 - 27
2469168	Endosulfan I	6.87	Spike	P	0 - 23
2469168	Endosulfan II	4.35	Spike	P	0 - 34
2469168	Endosulfan Sulfate	4.70	Spike	P	0 - 36
2469168	Endrin	9.78	Spike	P	0 - 45
2469168	Endrin Aldehyde	8.10	Spike	P	0 - 76
2469168	Endrin Ketone	13.2	Spike	P	0 - 43
2469168	Esfenvalerate	0.640	Spike	P	0 - 51
2469168	Ethalfuralin	7.55	Spike	P	0 - 22
2469168	Fenpropathrin	0.125	Spike	P	0 - 49
2469168	Gamma-BHC	8.89	Spike	P	0 - 28
2469168	Gamma-Chlordane	0.0898	Spike	P	0 - 40
2469168	Heptachlor	16.9	Spike	P	0 - 29
2469168	Heptachlor Epoxide	11.5	Spike	P	0 - 33
2469168	Hexachlorobenzene	4.15	Spike	P	0 - 36
2469168	Kepone	17.9	Spike	P	0 - 85
2469168	Lambda-Cyhalothrin	10.8	Spike	P	0 - 55
2469168	Methoprene	2.55	Spike	P	0 - 53
2469168	Methoxychlor	3.69	Spike	P	0 - 50
2469168	MGK-264	3.61	Spike	P	0 - 43
2469168	Mirex	0.635	Spike	P	0 - 40
2469168	Oxychlordane	1.88	Spike	P	0 - 31
2469168	Permethrin	5.41	Spike	P	0 - 50
2469168	Phenothrin	9.13	Spike	P	0 - 58
2469168	Piperonyl Butoxide	5.38	Spike	P	0 - 100
2469168	Prallethrin	2.54	Spike	P	0 - 39
2469168	Tau-Fluvalinate	9.09	Spike	P	0 - 54
2469168	Tetramethrin	0.226	Spike	P	0 - 51
2469168	Trans-Nonachlor	7.71	Spike	P	0 - 39
2469168	Triclosan Methyl	5.63	Spike	P	0 - 31
2469168	Trifluralin	7.56	Spike	P	0 - 22
2469632	PCB-1016	6.76	Spike	P	0 - 25
2469632	PCB-1260	1.84	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P441876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469595	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	55.0	Spike	F	0 - 30
2469595	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.3	Spike	P	0 - 35
2469595	Acetochlor	1.93	Spike	P	0 - 28
2469595	Alachlor	14.0	Spike	P	0 - 30
2469595	Ametryn	5.07	Spike	P	0 - 32
2469595	Atrazine	5.36	Spike	P	0 - 33
2469595	Atrazine Desethyl	1.01	Spike	P	0 - 36
2469595	Avobenzene	2.33	Spike	P	0 - 35
2469595	Azinphos Methyl	1.99	Spike	P	0 - 62
2469595	Azoxystrobin	5.25	Spike	P	0 - 39
2469595	Bromacil	6.89	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469595	Butylate	0.814	Spike	P	0 - 51
2469595	Caffeine	5.27	Spike	P	0 - 100
2469595	Carbophenothion	12.7	Spike	P	0 - 34
2469595	Carfentrazone Ethyl	1.55	Spike	P	0 - 33
2469595	Chlorfenapyr	12.8	Spike	P	0 - 28
2469595	Chlorpyrifos Ethyl	5.29	Spike	P	0 - 31
2469595	Chlorpyrifos Methyl	13.1	Spike	P	0 - 27
2469595	Coumaphos	21.4	Spike	P	0 - 62
2469595	Cyanazine	9.85	Spike	P	0 - 48
2469595	Cyprodinil	16.8	Spike	P	0 - 29
2469595	Dechlorane 602	23.5	Spike	P	0 - 60
2469595	Dechlorane 603	10.3	Spike	P	0 - 40
2469595	Dechlorane Plus	5.69	Spike	P	0 - 38
2469595	Demeton	11.1	Spike	P	0 - 33
2469595	Diazinon	11.2	Spike	P	0 - 32
2469595	Difenoconazole	7.42	Spike	P	0 - 71
2469595	Dimethenamid	2.89	Spike	P	0 - 60
2469595	Dimethomorph	10.6	Spike	P	0 - 61
2469595	Disulfoton	8.32	Spike	P	0 - 30
2469595	Dithiopyr	5.12	Spike	P	0 - 28
2469595	EPTC	0.416	Spike	P	0 - 56
2469595	Ethion	19.1	Spike	P	0 - 79
2469595	Ethoprop	3.14	Spike	P	0 - 31
2469595	Etridiazole	14.4	Spike	P	0 - 43
2469595	Fenamiphos	19.9	Spike	P	0 - 43
2469595	Fenbuconazole	24.3	Spike	P	0 - 79
2469595	Fipronil	7.66	Spike	P	0 - 46
2469595	Fipronil Desulfinyl	14.0	Spike	P	0 - 36
2469595	Fipronil Sulfide	5.64	Spike	P	0 - 34
2469595	Fipronil Sulfone	12.0	Spike	P	0 - 47
2469595	Fluazifop-P-butyl	14.8	Spike	P	0 - 38
2469595	Fludioxonil	10.8	Spike	P	0 - 29
2469595	Flumioxazin	8.01	Spike	P	0 - 63
2469595	Flutolanil	21.1	Spike	P	0 - 36
2469595	Fluxapyroxad	16.6	Spike	P	0 - 65
2469595	Fonofos	5.88	Spike	P	0 - 35
2469595	Hexabromobenzene	7.46	Spike	P	0 - 41
2469595	Hexazinone	2.19	Spike	P	0 - 31
2469595	Imazalil	24.9	Spike	P	0 - 52
2469595	Iprodione	123	Spike	F	0 - 49
2469595	Loratadine	17.9	Spike	P	0 - 59
2469595	Malathion	97.5	Spike	F	0 - 77
2469595	Metalaxyl	3.82	Spike	P	0 - 76
2469595	Metolachlor	23.8	Spike	P	0 - 29
2469595	Metribuzin	2.58	Spike	P	0 - 51
2469595	Mevinphos	24.0	Spike	P	0 - 31
2469595	Molinate	2.12	Spike	P	0 - 39
2469595	Myclobutanil	2.62	Spike	P	0 - 34
2469595	Naled	33.2	Spike	P	0 - 37
2469595	Napropamide	22.4	Spike	P	0 - 100
2469595	Norflurazon	20.8	Spike	P	0 - 54

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469595	Octinoxate	0.429	Spike	P	0 - 35
2469595	Oxadiazon	13.1	Spike	P	0 - 34
2469595	Oxybenzone	0.872	Spike	P	0 - 35
2469595	Oxyfluorfen	5.92	Spike	P	0 - 28
2469595	Parathion Ethyl	5.44	Spike	P	0 - 31
2469595	Parathion Methyl	1.70	Spike	P	0 - 29
2469595	PBB-153	6.22	Spike	P	0 - 49
2469595	PBDE-47	6.46	Spike	P	0 - 36
2469595	PBDE-99	9.30	Spike	P	0 - 46
2469595	Pendimethalin	23.2	Spike	P	0 - 31
2469595	Pentabromotoluene	3.80	Spike	P	0 - 16
2469595	Phenytoin	16.8	Spike	P	0 - 100
2469595	Phorate	4.10	Spike	P	0 - 36
2469595	Prodiamine	5.58	Spike	P	0 - 68
2469595	Prometon	3.82	Spike	P	0 - 35
2469595	Prometryn	21.7	Spike	P	0 - 33
2469595	Pronamide	3.21	Spike	P	0 - 24
2469595	Propanil	13.5	Spike	P	0 - 28
2469595	Propargite	0.760	Spike	P	0 - 53
2469595	Propiconazole	16.1	Spike	P	0 - 44
2469595	Pyraflufen Ethyl	6.49	Spike	P	0 - 61
2469595	Pyridaben	22.1	Spike	P	0 - 43
2469595	Pyriproxyfen	14.4	Spike	P	0 - 82
2469595	Simazine	5.56	Spike	P	0 - 29
2469595	Stirophos	19.7	Spike	P	0 - 100
2469595	Sulfentrazone	3.53	Spike	P	0 - 64
2469595	Tebuconazole	19.8	Spike	P	0 - 76
2469595	Terbufos	3.80	Spike	P	0 - 29
2469595	Terbuthylazine	7.19	Spike	P	0 - 28
2469595	Tetradecachloro-m-terphenyl	9.77	Spike	P	0 - 42
2469595	Thiobencarb	89.7	Spike	F	0 - 26
2469595	Tri-o-cresyl Phosphate	0.898	Spike	P	0 - 24
2469595	Triadimefon	16.2	Spike	P	0 - 40
2469595	Tris(1-chloro-2-propyl) phosphate (TCPP)	4.64	Spike	P	0 - 30
2469595	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.19	Spike	P	0 - 22
2469595	Tris(2-chloroethyl) phosphate (TCEP)	2.62	Spike	P	0 - 15

Reference Method: EPA 8276
Batch ID: P441759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469632	Chlordane	0.0846	Spike	P	0 - 28
2469632	Toxaphene	14.1	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P441467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468562	3-Hydroxycarbofuran	7.76	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P441467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468562	Aldicarb	6.67	Spike	P	0 - 30
2468562	Aldicarb Sulfone	5.33	Spike	P	0 - 30
2468562	Aldicarb Sulfoxide	9.65	Spike	P	0 - 30
2468562	Carbaryl	5.48	Spike	P	0 - 30
2468562	Carbofuran	0.740	Spike	P	0 - 30
2468562	Methiocarb	1.02	Spike	P	0 - 30
2468562	Methomyl	2.22	Spike	P	0 - 30
2468562	Oxamyl	1.38	Spike	P	0 - 30
2468562	Propoxur	1.29	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469167	Acesulfame K	2.03	Spike	P	0 - 30
2469167	AMPA	1.84	Spike	P	0 - 30
2469167	Endothall	0.677	Spike	P	0 - 30
2469167	Glufosinate	0.169	Spike	P	0 - 30
2469167	Glyphosate	2.08	Spike	P	0 - 30
2469167	Sucralose	3.62	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469574	2,4-D	2.74	Spike	P	0 - 30
2469574	2,4,5-T	0.775	Spike	P	0 - 30
2469574	Acetaminophen	15.7	Spike	P	0 - 30
2469574	Acetamiprid	13.9	Spike	P	0 - 30
2469574	Afidopyropen	3.01	Spike	P	0 - 30
2469574	Bentazon	0.184	Spike	P	0 - 30
2469574	Benzovindiflupyr	6.87	Spike	P	0 - 30
2469574	Carbamazepine	5.28	Spike	P	0 - 30
2469574	Clothianidin	0.270	Spike	P	0 - 30
2469574	Dinotefuran	14.2	Spike	P	0 - 30
2469574	Diuron	0.519	Spike	P	0 - 30
2469574	Fenuron	1.83	Spike	P	0 - 30
2469574	Fluridone	7.22	Spike	P	0 - 30
2469574	Hydrocodone	4.96	Spike	P	0 - 30
2469574	Ibuprofen	11.0	Spike	P	0 - 30
2469574	Imazapyr	7.22	Spike	P	0 - 30
2469574	Imidacloprid	1.49	Spike	P	0 - 30
2469574	Linuron	5.58	Spike	P	0 - 30
2469574	Mandestrobin	4.87	Spike	P	0 - 30
2469574	MCP	6.92	Spike	P	0 - 30
2469574	Naproxen	16.0	Spike	P	0 - 30
2469574	Primidone	3.64	Spike	P	0 - 30
2469574	Pyraclostrobin	5.06	Spike	P	0 - 30
2469574	Silvex	2.39	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P441664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469574	Thiamethoxam	3.72	Spike	P	0 - 30
2469574	Tolfenpyrad	9.71	Spike	P	0 - 30
2469574	Triclopyr	1.11	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P442205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470378	Total Alkalinity	1.04	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P442206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470712	Total Alkalinity	1.90	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P441984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469447	TDS	7.18	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P442210

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470712	Fluoride	0.492	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P442483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469610	Fluoride	0.947	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P441950

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469515	Organic Carbon	0.247	Spike	P	0 - 15

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report

Surrogates

Lab Sample ID: 2469630

Field Sample ID: 20030679

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	63.4	P	30 - 160

Lab Sample ID: 2469631

Field Sample ID: 20030679

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	88.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	77.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.1	P	30 - 160
EPA 8321B	Diuron-d6	82.9	P	30 - 160
EPA 8321B	Endothall-d6	85.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.5	P	30 - 160
EPA 8321B	Primidone-d5	78.4	P	30 - 160
EPA 8321B	Sucralose-d6	50.7	P	30 - 160

Lab Sample ID: 2469632

Field Sample ID: 20030679

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.9	P	37 - 129
EPA 8270E	Decachlorobiphenyl	69.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	64.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	46.0	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	52.7	P	23 - 110
EPA 8276	PCNB	111	P	51 - 130

Lab Sample ID: 2469633

Field Sample ID: 20030679

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	79.6	P	20 - 200
EPA 8270E	Simazine-d10	89.2	P	58 - 137
EPA 8270E	Terbufos-d10	111	P	50 - 134
EPA 8270E	Terphenyl-d14	89.6	P	44 - 134

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A124223
Included Lab Sample IDs: 2469608, 2469610, 2469612, 2469614, 2469616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.7	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A124226
Included Lab Sample IDs: 2469608, 2469610, 2469612, 2469614, 2469616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A124241
Included Lab Sample IDs: 2469630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	103	99.1	P/P	60 - 150
Aldicarb	116	106	P/P	60 - 150
Aldicarb Sulfone	101	98.1	P/P	50 - 150
Aldicarb Sulfoxide	112	112	P/P	50 - 150
Carbaryl	115	97.6	P/P	60 - 150
Carbofuran	119	106	P/P	50 - 150
Methiocarb	97.4	108	P/P	50 - 150
Methomyl	105	100	P/P	50 - 150
Oxamyl	116	107	P/P	50 - 150
Propoxur	112	108	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124263
Included Lab Sample IDs: 2469613

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124275
Included Lab Sample IDs: 2469609, 2469611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124278
Included Lab Sample IDs: 2469631

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	148	142	P/P	60 - 160
Sucralose	107	104	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A124279
Included Lab Sample IDs: 2469631

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	99.1	105	P/P	60 - 160
Endothall	84.8	85.0	P/P	60 - 160
Glufosinate	88.2	91.8	P/P	60 - 160
Glyphosate	97.7	102	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124293
Included Lab Sample IDs: 2469613

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	95.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124297
Included Lab Sample IDs: 2469609, 2469611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124313
Included Lab Sample IDs: 2469638, 2469639, 2469641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.0	98.6	P/P	90 - 110
Antimony	96.1	96.4	P/P	90 - 110
Arsenic	93.0	93.1	P/P	90 - 110
Barium	96.3	97.0	P/P	90 - 110
Beryllium	95.7	94.1	P/P	90 - 110
Boron	96.3	98.8	P/P	90 - 110
Cadmium	94.5	94.0	P/P	90 - 110
Chromium	93.6	95.1	P/P	90 - 110
Cobalt	91.4	91.9	P/P	90 - 110
Copper	90.8	92.4	P/P	90 - 110
Lead	90.1	90.2	P/P	90 - 110
Manganese	93.2	90.4	P/P	90 - 110
Molybdenum	94.4	94.2	P/P	90 - 110
Nickel	91.6	91.2	P/P	90 - 110
Selenium	96.7	96.4	P/P	90 - 110
Silver	94.5	94.3	P/P	90 - 110
Thallium	94.8	94.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124314
Included Lab Sample IDs: 2469615, 2469617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124317

Included Lab Sample IDs: 2469615, 2469617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124340

Included Lab Sample IDs: 2469637, 2469640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	100	P/P	90 - 110
Antimony	99.7	97.5	P/P	90 - 110
Arsenic	99.5	98.8	P/P	90 - 110
Barium	100	99.7	P/P	90 - 110
Beryllium	100	97.6	P/P	90 - 110
Boron	107	108	P/P	90 - 110
Cadmium	99.1	97.1	P/P	90 - 110
Chromium	95.8	99.3	P/P	90 - 110
Cobalt	97.1	95.9	P/P	90 - 110
Copper	98.2	96.8	P/P	90 - 110
Lead	94.0	95.3	P/P	90 - 110
Manganese	97.7	96.6	P/P	90 - 110
Molybdenum	101	98.3	P/P	90 - 110
Nickel	98.1	96.9	P/P	90 - 110
Selenium	102	99.8	P/P	90 - 110
Silver	101	99.8	P/P	90 - 110
Thallium	97.9	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124355

Included Lab Sample IDs: 2469609, 2469611, 2469615, 2469617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	110	P/P	90 - 110
Kjeldahl Nitrogen	105	110	P/P	90 - 110
Kjeldahl Nitrogen	108	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124369

Included Lab Sample IDs: 2469611, 2469613

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A124385

Included Lab Sample IDs: 2469609, 2469611, 2469613, 2469615, 2469617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	115	96.2	P/P	70 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124389

Included Lab Sample IDs: 2469613, 2469615, 2469617

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	97.2	P/P	90 - 110
Ammonia-N	98.1	98.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124403

Included Lab Sample IDs: 2469633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	97.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.3		P	80 - 120
Avobenzone	103		P	80 - 120
Dechlorane 602	107		P	80 - 120
Dechlorane 603	106		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Hexabromobenzene	110		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	98.5		P	80 - 120
PBB-153	93.8		P	80 - 120
PBDE-47	96.2		P	80 - 120
PBDE-99	99.0		P	80 - 120
Pentabromotoluene	98.0		P	80 - 120
Tetradecachloro-m-terphenyl	94.4		P	80 - 120
Tri-o-cresyl Phosphate	105		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	92.4		P	80 - 120

Reference Method: EPA 8276

Run ID: A124430

Included Lab Sample IDs: 2469632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	99.7		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A124439

Included Lab Sample IDs: 2469608, 2469610, 2469612, 2469614, 2469616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Chloride	103	102	P/P	90 - 110
Chloride	103	103	P/P	90 - 110
Sulfate	102	103	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124458

Included Lab Sample IDs: 2469637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124458
Included Lab Sample IDs: 2469637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	103	99.6	P/P	95 - 105
Strontium	99.3	101	P/P	95 - 105
Tin	99.0	98.7	P/P	95 - 105
Titanium	102	101	P/P	95 - 105
Zinc	99.5	99.2	P/P	95 - 105

Reference Method: EPA 8270E
Run ID: A124470
Included Lab Sample IDs: 2469632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	104		P	80 - 120

Reference Method: EPA 8321B
Run ID: A124488
Included Lab Sample IDs: 2469631

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	110	P/P	50 - 150
2,4,5-T	114	104	P/P	50 - 150
Acetaminophen	106	103	P/P	60 - 160
Acetamiprid	113	115	P/P	50 - 150
Afidopyropen	106	95.1	P/P	50 - 150
Bentazon	112	104	P/P	50 - 160
Benzovindiflupyr	105	107	P/P	50 - 150
Carbamazepine	120	127	P/P	60 - 150
Clothianidin	104	106	P/P	60 - 150
Dinotefuran	110	108	P/P	50 - 150
Diuron	126	123	P/P	60 - 160
Fenuron	108	107	P/P	60 - 150
Fluridone	116	133	P/P	60 - 160
Hydrocodone	106	106	P/P	60 - 150
Ibuprofen	148	112	P/P	50 - 160
Imazapyr	99.3	89.3	P/P	50 - 150
Imidacloprid	105	107	P/P	60 - 150
Linuron	101	95.2	P/P	60 - 150
Mandestrobin	103	106	P/P	50 - 150
MCPP	90.8	90.4	P/P	50 - 150
Naproxen	91.3	86.9	P/P	50 - 160
Primidone	103	103	P/P	60 - 150
Pyraclostrobin	111	113	P/P	60 - 150
Silvex	105	101	P/P	50 - 150
Thiamethoxam	111	113	P/P	50 - 150
Tolfenpyrad	109	104	P/P	60 - 150
Triclopyr	90.9	97.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124489

Included Lab Sample IDs: 2469637, 2469640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	98.0	P/P	90 - 110
Calcium	102	100	P/P	90 - 110
Magnesium	101	99.6	P/P	90 - 110
Magnesium	99.6	97.6	P/P	90 - 110
Potassium	101	99.8	P/P	90 - 110
Sodium	101	99.5	P/P	90 - 110
Strontium	98.0	98.6	P/P	90 - 110
Vanadium	99.3	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A124499

Included Lab Sample IDs: 2469608, 2469610, 2469612, 2469614, 2469616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.0	100	P/P	90 - 110
Total Alkalinity	95.3	99.8	P/P	90 - 110
Total Alkalinity	99.8	95.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124499

Included Lab Sample IDs: 2469608, 2469612, 2469614, 2469616

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	110	P/P	90 - 110
Fluoride	110	108	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124520

Included Lab Sample IDs: 2469640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	102	100	P/P	90 - 110
Tin	98.4	98.3	P/P	90 - 110
Titanium	102	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124554

Included Lab Sample IDs: 2469632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.4		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	110		P	80 - 120
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	96.6		P	80 - 120
Bifenthrin	104		P	80 - 120
Chlorothalonil	97.9		P	80 - 120
Cis-Nonachlor	109		P	80 - 120
Cypermethrin	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124554
Included Lab Sample IDs: 2469632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dacthal	105		P	80 - 120
DDD-p,p'	97.8		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	101		P	80 - 120
Deltamethrin	100		P	80 - 120
Dichlobenil	112		P	80 - 120
Dicofol	99.3		P	80 - 120
Dieldrin	97.7		P	80 - 120
Endosulfan I	98.9		P	80 - 120
Endosulfan II	96.5		P	80 - 120
Endosulfan Sulfate	98.2		P	80 - 120
Endrin	97.6		P	80 - 120
Endrin Aldehyde	99.1		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	101		P	80 - 120
Ethalfuralin	95.5		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	111		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	115		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	99.0		P	80 - 120
Methoprene	97.4		P	80 - 120
Methoxychlor	98.7		P	80 - 120
MGK-264	107		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	109		P	80 - 120
Permethrin	100		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	97.4		P	80 - 120
Tau-Fluvalinate	96.0		P	80 - 120
Tetramethrin	98.5		P	80 - 120
Trans-Nonachlor	108		P	80 - 120
Triclosan Methyl	112		P	80 - 120
Trifluralin	99.9		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124576
Included Lab Sample IDs: 2469609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124583

Included Lab Sample IDs: 2469638, 2469639, 2469641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	101	P/P	90 - 110
Calcium	103	102	P/P	90 - 110
Calcium	103	103	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Iron	103	101	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	101	100	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	102	103	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Potassium	103	102	P/P	90 - 110
Sodium	102	103	P/P	90 - 110
Sodium	103	103	P/P	90 - 110
Strontium	102	102	P/P	90 - 110
Strontium	102	103	P/P	90 - 110
Strontium	103	102	P/P	90 - 110
Tin	100	100	P/P	90 - 110
Tin	100	100	P/P	90 - 110
Tin	100	99.4	P/P	90 - 110
Titanium	99.0	98.6	P/P	90 - 110
Titanium	99.7	99.0	P/P	90 - 110
Titanium	99.7	99.7	P/P	90 - 110
Vanadium	100	99.6	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Vanadium	101	100	P/P	90 - 110
Zinc	102	101	P/P	90 - 110
Zinc	103	103	P/P	90 - 110
Zinc	103	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124590

Included Lab Sample IDs: 2469633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.8		P	80 - 120
Alachlor	92.3		P	80 - 120
Ametryn	94.0		P	80 - 120
Atrazine	99.5		P	80 - 120
Atrazine Desethyl	91.7		P	80 - 120
Azinphos Methyl	99.8		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	96.5		P	80 - 120
Butylate	98.4		P	80 - 120
Caffeine	95.5		P	80 - 120
Carbophenothion	94.1		P	80 - 120
Carfentrazone Ethyl	91.7		P	80 - 120
Chlorfenapyr	94.3		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	90.3		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A124590
Included Lab Sample IDs: 2469633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cyanazine	86.5		P	80 - 120
Cyprodinil	84.6		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	93.2		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	98.7		P	80 - 120
EPTC	99.5		P	80 - 120
Ethion	98.7		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	93.6		P	80 - 120
Fenbuconazole	94.4		P	80 - 120
Fipronil	97.3		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	96.0		P	80 - 120
Fipronil Sulfone	88.1		P	80 - 120
Fluazifop-P-butyl	90.0		P	80 - 120
Fludioxonil	89.6		P	80 - 120
Flumioxazin	102		P	80 - 120
Flutolanil	90.7		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Fonofos	92.3		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	93.9		P	80 - 120
Iprodione	98.6		P	80 - 120
Loratadine	100		P	80 - 120
Malathion	104		P	80 - 120
Metaxyl	98.5		P	80 - 120
Metolachlor	93.0		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	99.3		P	80 - 120
Myclobutanil	96.9		P	80 - 120
Naled	110		P	80 - 120
Napropamide	90.4		P	80 - 120
Norflurazon	91.2		P	80 - 120
Oxadiazon	96.6		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	98.6		P	80 - 120
Parathion Methyl	105		P	80 - 120
Pendimethalin	94.4		P	80 - 120
Phenytoin	97.4		P	80 - 120
Phorate	97.7		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	90.6		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124590
Included Lab Sample IDs: 2469633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propargite	94.0		P	80 - 120
Propiconazole	93.3		P	80 - 120
Pyraflufen Ethyl	89.9		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	96.5		P	80 - 120
Stirophos	92.7		P	80 - 120
Sulfentrazone	94.4		P	80 - 120
Tebuconazole	92.1		P	80 - 120
Terbufos	97.3		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	99.3		P	80 - 120
Triadimefon	90.0		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A124624
Included Lab Sample IDs: 2469610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	101	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	96.4				0.270	
EPA 180.1 Rev. 2.0	Turbidity	103				12.4	
EPA 200.7 Rev. 4.4	Calcium	97.9					2.55
	Calcium	107	102	99.8			0.150
	Iron	110	98.6	97.7			0.819
	Iron	113	111	110	110		0.329
	Magnesium	97.5					2.45
	Magnesium	113	109	108	103		0.607
	Potassium	95.5					0.620
	Potassium	105	103	101	102		0.968
	Sodium	96.4					1.36
	Sodium	106	104	102			0.113
	Strontium	100					1.08
	Strontium	103	100	101	99.3		0.539
	Tin	96.1	81.0	80.6			0.524
	Tin	99.1	94.4	94.2	95.2		0.191
	Titanium	100	81.6	80.3			1.46
	Titanium	102	98.0	99.1	97.9		1.05
	Vanadium	98.1	88.7	87.4			1.47
	Vanadium	101	100	99.4	99.3		0.612
	Zinc	95.1	85.4	84.3			1.32
	Zinc	102	99.6	100	97.0		0.803
EPA 200.8 Rev. 5.4	Aluminum	100	93.1	104			8.41
	Aluminum	97.5	94.5	94.8	97.0		0.347
	Antimony	99.4	101	103			1.81
	Antimony	99.9	99.3	99.2	99.6		0.0518
	Arsenic	98.9	110	112			1.54
	Arsenic	98.4	97.1	96.9	96.9		0.156
	Barium	101	103	102			0.623
	Barium	101	99.0	98.3	97.9		0.607
	Beryllium	88.8	100	96.4			4.01
	Beryllium	93.6	96.7	95.3	89.7		1.46
	Boron	110					3.12
	Boron	97.0	96.7	99.0	98.0		1.92
	Cadmium	99.0	98.0	103			4.84
	Cadmium	99.4	98.2	97.2	94.9		0.980
	Chromium	100	106	111			4.54
	Chromium	102	101	99.8	103		1.10
	Cobalt	96.1	102	103			1.04
	Cobalt	97.9	97.1	95.7	96.5		1.44
	Copper	94.6	98.6	101			1.96
	Copper	95.9	94.3	93.2	94.1		1.18
	Lead	94.9	104	105			1.21
	Lead	92.7	93.1	92.3	91.3		0.910
	Manganese	99.3	96.8	98.9			1.81
	Manganese	97.9	94.9	94.0	90.5		0.824
	Molybdenum	97.8	112	114			1.92
	Molybdenum	97.4	98.1	97.3	96.3		0.779
	Nickel	95.8	104	107			2.76
	Nickel	97.6	96.9	95.6	96.3		1.31
	Selenium	100	106	108			1.99
	Selenium	99.0	97.6	97.8	99.5		0.183
	Silver	96.7	88.7	90.7			2.14
	Silver	96.3	91.9	92.1	90.6		0.147

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 200.8 Rev. 5.4	Thallium	97.6	106	108	96.6		1.65
	Thallium	95.8	97.9	97.3			0.644
EPA 300.0 Rev. 2.1	Chloride	105	103	105		0.947	
	Chloride	105	99.1	104		0.498	
	Sulfate	104	104	104		1.62	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	97.2	98.0			0.638
	Ammonia-N	95.4	97.8	97.2			0.533
	Ammonia-N	94.0	96.8	96.4			0.385
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.6	95.1	95.2			0.101
	Kjeldahl Nitrogen	103	99.3	104			3.00
	Kjeldahl Nitrogen	102	108	108			0.0519
	Kjeldahl Nitrogen	109	106	105			0.946
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100				0.897
	NO2NO3-N	99.5	98.8	99.3			0.355
	NO2NO3-N	99.5	97.5				0.701
EPA 365.1 Rev. 2.0	Total-P	101	95.5	97.5			2.05
	Total-P	100	101	104			2.87
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	54.0	51.5	90.5			55.0
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.1	90.6	100			10.3
	Acetochlor	104	107	105			1.93
	Alachlor	90.0	80.3	92.3			14.0
	Aldrin	49.1	73.9	71.5			3.29
	Alpha-BHC	88.9	89.3	92.6			3.58
	Alpha-Chlordane	79.6	110	101			8.15
	Ametryn	97.6	125	118			5.07
	Atrazine	93.9					5.36
	Atrazine Desethyl	81.2	101	100			1.01
	Avobenzone	124	114	117			2.33
	Azinphos Methyl	129	105	103			1.99
	Azoxystrobin	93.2	99.8	105			5.25
	Beta-BHC	84.9	91.2	93.3			2.30
	Beta-Cyfluthrin	65.4	106	93.4			13.0
	Bifenthrin	52.9	116	118			2.37
	Bromacil	108	104	111			6.89
	Butylate	58.4	62.6	62.1			0.814
	Caffeine	98.9	111	104			5.27
	Carbophenothion	80.5	83.4	73.4			12.7
	Carfentrazone Ethyl	90.3	73.3	74.4			1.55
	Chlorfenapyr	78.4	84.6	74.4			12.8
	Chlorothalonil	64.5	112	139			21.3
	Chlorpyrifos Ethyl	102	110	115			5.29
	Chlorpyrifos Methyl	103	108	123			13.1
	Cis-Nonachlor	72.0	83.8	97.8			15.4
	Coumaphos	105	121	97.4			21.4
	Cyanazine	103	111	100			9.85
	Cypermethrin	60.0	90.3	80.9			11.0
	Cyprodinil	86.5	113	95.9			16.8
	Dacthal	95.8	123	115			6.88
	DDD-p,p'	59.8	73.1	70.4			3.77
	DDE-p,p'	60.1	75.5	70.0			7.58
	DDT-p,p'	77.3	83.1	79.3			3.57

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dechlorane 602	95.4	64.4	81.5			23.5
	Dechlorane 603	107	84.4	93.6			10.3
	Dechlorane Plus	94.8	75.9	80.4			5.69
	Delta-BHC	90.2	118	114			3.50
	Deltamethrin	83.0	96.4	143			38.7
	Demeton	87.3	107	119			11.1
	Diazinon	104	120	134			11.2
	Dichlobenil	81.5	63.8	55.8			13.2
	Dicofol	70.3	82.3	80.2			2.70
	Dieldrin	61.0	75.3	71.5			5.10
	Difenoconazole	74.2	88.6	82.2			7.42
	Dimethenamid	102	107	110			2.89
	Dimethomorph	95.4	128	115			10.6
	Disulfoton	92.0	113	123			8.32
	Dithiopyr	95.4	102	107			5.12
	Endosulfan I	64.3	74.2	69.2			6.87
	Endosulfan II	65.1	74.3	71.1			4.35
	Endosulfan Sulfate	88.5	84.3	80.4			4.70
	Endrin	69.8	80.7	73.2			9.78
	Endrin Aldehyde	70.9	46.8	43.2			8.10
	Endrin Ketone	74.2	82.5	72.3			13.2
	EPTC	55.2	58.9	58.6			0.416
	Esfenvalerate	71.4	130	129			0.640
	Ethalfuralin	71.3	82.8	76.8			7.55
	Ethion	86.9	87.7	72.4			19.1
	Ethoprop	83.4	92.4	95.3			3.14
	Etridiazole	70.1	62.0	71.6			14.4
	Fenamiphos	97.9	92.0	75.3			19.9
	Fenbuconazole	64.1	74.5	58.4			24.3
	Fenpropathrin	78.3	113	113			0.125
	Fipronil	101	104	112			7.66
	Fipronil Desulfinyl	83.4	83.2	97.5			14.0
	Fipronil Sulfide	89.7	93.6	99.8			5.64
	Fipronil Sulfone	86.9	90.4	77.6			12.0
	Fluazifop-P-butyl	79.0	84.3	72.7			14.8
	Fludioxonil	79.1	81.4	73.1			10.8
	Flumioxazin	168	143	132			8.01
	Flutolanil	85.5	74.6	60.4			21.1
	Fluxapyroxad	107	123	104			16.6
	Fonofos	83.0	96.6	91.1			5.88
	Gamma-BHC	94.7	95.1	104			8.89
	Gamma-Chlordane	77.5	104	104			0.0898
	Heptachlor	68.3	82.1	97.2			16.9
	Heptachlor Epoxide	95.0	116	103			11.5
	Hexabromobenzene	93.8	107	99.8			7.46
	Hexachlorobenzene	65.1	80.8	77.5			4.15
	Hexazinone	97.3	112	110			2.19
	Imazalil	80.1	85.7	110			24.9
	Iprodione	104	11.7	48.9			123
	Kepone	70.9	77.9	65.1			17.9
	Lambda-Cyhalothrin	27.3	57.0	51.2			10.8
	Loratadine	80.5	97.4	81.4			17.9
	Malathion	123	76.4	26.3			97.5
	Metalaxyl	90.6	102	98.1			3.82

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Methoprene	42.3	79.6	81.7		2.55
	Methoxychlor	77.8	91.2	94.7		3.69
	Metolachlor	84.3	88.3	69.6		23.8
	Metribuzin	95.8	105	108		2.58
	Mevinphos	111	90.6	115		24.0
	MGK-264	83.1	102	106		3.61
	Mirex	54.7	79.5	80.0		0.635
	Molinate	66.9	78.3	76.7		2.12
	Myclobutanil	103	110	113		2.62
	Naled	79.3	59.7	83.5		33.2
	Napropamide	73.6	77.7	62.1		22.4
	Norflurazon	79.5	82.6	67.1		20.8
	Octinoxate	98.1	89.3	89.7		0.429
	Oxadiazon	78.0	82.4	72.3		13.1
	Oxybenzone	96.3	87.3	86.6		0.872
	Oxychlordane	79.2	132	130		1.88
	Oxyfluorfen	107	118	125		5.92
	Parathion Ethyl	92.8	106	101		5.44
	Parathion Methyl	98.8	117	115		1.70
	PBB-153	97.7	91.2	97.1		6.22
	PBDE-47	103	86.5	92.3		6.46
	PBDE-99	102	82.2	90.2		9.30
	PCB-1016	72.7	82.1	76.8		6.76
	PCB-1260	87.4	95.9	94.1		1.84
	Pendimethalin	118	127	101		23.2
	Pentabromotoluene	84.1	79.9	76.9		3.80
	Permethrin	66.3	89.1	94.1		5.41
	Phenothrin	41.2	114	125		9.13
	Phenytoin	94.8	35.6	30.1		16.8
	Phorate	75.5	105	110		4.10
	Piperonyl Butoxide	86.4	79.9	84.8		5.38
	Prallethrin	56.7	61.7	63.3		2.54
	Prodimamine	118	113	107		5.58
	Prometon	112	130	125		3.82
	Prometryn	110	130	104		21.7
	Pronamide	109	120	116		3.21
	Propanil	86.2	88.7	77.5		13.5
	Propargite	81.5	79.0	79.6		0.760
	Propiconazole	89.2	112	95.4		16.1
	Pyraflufen Ethyl	84.5	70.0	74.7		6.49
	Pyridaben	110	133	106		22.1
	Pyriproxyfen	103	118	103		14.4
	Simazine	100	114	108		5.56
	Stirophos	88.1	69.0	56.6		19.7
	Sulfentrazone	102	31.4	30.3		3.53
	Tau-Fluvalinate	53.5	102	112		9.09
	Tebuconazole	85.2	97.9	80.3		19.8
	Terbufos	85.3	106	102		3.80
	Terbutylazine	91.4	97.8	91.0		7.19
	Tetradecachloro-m-terphenyl	80.5	85.7	77.7		9.77
	Tetramethrin	82.7	126	126		0.226
	Thiobencarb	104	104	39.6		89.7
	Trans-Nonachlor	74.3	78.3	84.6		7.71
	Tri-o-cresyl Phosphate	107	95.9	96.8		0.898

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Triadimefon	73.7	77.8	91.5			16.2
	Triclosan Methyl	89.4	104	110			5.63
	Trifluralin	72.2	79.7	73.9			7.56
	Tris(1-chloro-2-propyl) phosphate (TCPP)	98.4	98.8	94.4			4.64
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107	97.5	99.7			2.19
	Tris(2-chloroethyl) phosphate (TCEP)	108	97.1	94.5			2.62
EPA 8276	Chlordane	72.3	78.2	78.3			0.0846
	Toxaphene	70.5	72.1	83.1			14.1
EPA 8321B	2,4-D	111	71.9	73.9			2.74
	2,4,5-T	98.6	75.2	74.6			0.775
	3-Hydroxycarbofuran	77.1	78.8	72.9			7.76
	Acesulfame K	124	122	124			2.03
	Acetaminophen	81.5	62.4	73.0			15.7
	Acetamiprid	73.9	43.8	50.3			13.9
	Afidopyropen	58.5	56.1	57.8			3.01
	Aldicarb	61.3	69.5	65.0			6.67
	Aldicarb Sulfone	91.5	62.4	59.2			5.33
	Aldicarb Sulfoxide	120	35.2	32.0			9.65
	AMPA	103	101	103			1.84
	Bentazon	103	51.7	51.6			0.184
	Benzovindiflupyr	82.2	85.4	79.7			6.87
	Carbamazepine	84.4	67.9	64.4			5.28
	Carbaryl	80.3	62.1	65.6			5.48
	Carbofuran	81.1	65.7	65.2			0.740
	Clothianidin	88.0	61.2	61.3			0.270
	Dinotefuran	97.3	53.4	61.5			14.2
	Diuron	88.5	65.2	65.5			0.519
	Endothall	87.1	93.4	94.0			0.677
	Fenuron	91.1	53.4	54.4			1.83
	Fluridone	92.9	76.4	71.1			7.22
	Glufosinate	90.3	88.5	88.6			0.169
	Glyphosate	99.3	97.9	95.9			2.08
	Hydrocodone	88.2	52.1	54.8			4.96
	Ibuprofen	63.5	65.8	59.0			11.0
	Imazapyr	101	95.5	87.2			7.22
	Imidacloprid	87.7	67.1	68.1			1.49
	Linuron	84.9	71.2	67.3			5.58
	Mandestrobin	75.9	78.8	75.0			4.87
	MCPP	90.2	75.0	70.0			6.92
	Methiocarb	69.0	64.9	64.3			1.02
	Methomyl	89.3	73.5	71.9			2.22
	Naproxen	101	89.5	76.3			16.0
	Oxamyl	97.5	44.8	44.2			1.38
	Primidone	82.9	72.5	75.2			3.64
	Propoxur	79.1	60.3	59.5			1.29
	Pyraclostrobin	82.4	82.5	78.4			5.06
	Silvex	100	79.0	77.2			2.39
	Sucralose	98.4	102	106			3.62
	Thiamethoxam	86.7	53.3	55.4			3.72
	Tolfenpyrad	51.2	46.4	51.1			9.71
	Triclopyr	103	75.0	74.2			1.11

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 2320 B-2011	Total Alkalinity	98.3			1.04	
	Total Alkalinity	99.9			1.90	
SM 2540 C-2015	TDS	92.8			7.18	
SM 2540 D-2015	TSS	92.0				
SM 4500-F- C-2011	Fluoride	102	104 103			0.492
	Fluoride	101	99.6 101			0.947
SM 5310 B-2014	Organic Carbon	96.1	94.2 93.9			0.247

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2469608, 2469610, 2469612, 2469614, 2469616
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2469608, 2469610, 2469612, 2469614, 2469616
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2469637, 2469638, 2469639, 2469640, 2469641
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2469637, 2469638, 2469639, 2469640, 2469641
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2469608, 2469610, 2469612, 2469614, 2469616
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2469608, 2469610, 2469612, 2469614, 2469616
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2469609, 2469611, 2469613, 2469615, 2469617
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2469609, 2469611, 2469613, 2469615, 2469617
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2469609, 2469611, 2469613, 2469615, 2469617
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2469609, 2469611, 2469613, 2469615, 2469617
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2469633
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2469632
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2469633
EPA 8270E	PCBs in water matrices by GC/MS/MS	2469632
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2469632
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2469630
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2469631
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2469608, 2469610, 2469612, 2469614, 2469616
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2469637, 2469638, 2469639, 2469640, 2469641
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2469608, 2469610, 2469612, 2469614, 2469616
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2469608, 2469610, 2469612, 2469614, 2469616
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2469608, 2469610, 2469612, 2469614, 2469616
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2469609, 2469611, 2469613, 2469615, 2469617

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/16/2024			02/16/2024 13:50	Jessica K Wilks	2469608
	02/16/2024			02/16/2024 13:51	Jessica K Wilks	2469610
	02/16/2024			02/16/2024 13:52	Jessica K Wilks	2469612
	02/16/2024			02/16/2024 13:53	Jessica K Wilks	2469614
	02/16/2024			02/16/2024 13:54	Jessica K Wilks	2469616
EPA 180.1 Rev. 2.0	02/16/2024			02/16/2024 14:56	Khloe J Berg	2469608
	02/16/2024			02/16/2024 14:58	Khloe J Berg	2469610
	02/16/2024			02/16/2024 14:59	Khloe J Berg	2469612
	02/16/2024			02/16/2024 15:01	Khloe J Berg	2469614
	02/16/2024			02/16/2024 15:04	Khloe J Berg	2469616
EPA 200.7 Rev. 4.4	02/16/2024	02/19/2024 13:45	George D Taylor	03/06/2024 20:14	Conrad Hartmann	2469641
	02/16/2024	02/19/2024 13:45	George D Taylor	03/06/2024 21:54	Conrad Hartmann	2469639
	02/16/2024	02/19/2024 13:45	George D Taylor	03/06/2024 22:58	Conrad Hartmann	2469638
	02/16/2024	02/19/2024 13:45	George D Taylor	03/06/2024 23:05	Conrad Hartmann	2469638
	02/16/2024	02/19/2024 13:45	George D Taylor	03/07/2024 12:25	Conrad Hartmann	2469639
	02/16/2024	02/19/2024 13:55	George D Taylor	02/28/2024 14:49	Chase Roberts	2469637
	02/16/2024	02/19/2024 13:55	George D Taylor	02/29/2024 16:49	Chase Roberts	2469637
	02/16/2024	02/19/2024 13:55	George D Taylor	02/29/2024 17:56	Chase Roberts	2469637
	02/16/2024	02/19/2024 13:55	George D Taylor	02/29/2024 19:05	Chase Roberts	2469640
	02/16/2024	02/19/2024 13:55	George D Taylor	02/29/2024 19:16	Chase Roberts	2469640
EPA 200.8 Rev. 5.4	02/16/2024	02/19/2024 13:55	George D Taylor	03/01/2024 20:04	Conrad Hartmann	2469640
	02/16/2024	02/19/2024 13:55	George D Taylor	03/01/2024 20:12	Conrad Hartmann	2469640
	02/16/2024	02/19/2024 13:45	George D Taylor	02/21/2024 17:02	Emily M Philpot	2469639
	02/16/2024	02/19/2024 13:45	George D Taylor	02/21/2024 17:49	Emily M Philpot	2469638
	02/16/2024	02/19/2024 13:45	George D Taylor	02/21/2024 17:59	Emily M Philpot	2469638
	02/16/2024	02/19/2024 13:45	George D Taylor	02/21/2024 18:18	Emily M Philpot	2469641
	02/16/2024	02/19/2024 13:55	George D Taylor	02/22/2024 19:26	Emily M Philpot	2469637
	02/16/2024	02/19/2024 13:55	George D Taylor	02/22/2024 19:35	Emily M Philpot	2469640
	02/16/2024	02/19/2024 13:55	George D Taylor	02/22/2024 20:51	Emily M Philpot	2469637
	02/16/2024	02/19/2024 13:55	George D Taylor	02/22/2024 21:01	Emily M Philpot	2469640
EPA 300.0 Rev. 2.1	02/16/2024			02/27/2024 14:13	James L Waggeberby	2469608
	02/16/2024			02/27/2024 14:29	James L Waggeberby	2469610
	02/16/2024			02/27/2024 15:14	James L Waggeberby	2469612
	02/16/2024			02/27/2024 15:29	James L Waggeberby	2469614
	02/16/2024			02/27/2024 15:44	James L Waggeberby	2469616
EPA 350.1 Rev. 2.0	02/16/2024			02/29/2024 21:26	James L Waggeberby	2469608
	02/16/2024			02/21/2024 13:17	Khloe J Berg	2469609
	02/16/2024			02/21/2024 13:19	Khloe J Berg	2469611
	02/16/2024			02/26/2024 12:23	Kenneth H Lee	2469615
	02/16/2024			02/26/2024 12:30	Kenneth H Lee	2469617

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	02/16/2024			02/26/2024 14:11	Kenneth H Lee	2469613
EPA 351.2 Rev. 2.0	02/16/2024	02/20/2024 09:57	Samantha L Bates	02/21/2024 11:29	Robyn Blevins	2469613
	02/16/2024	02/22/2024 13:33	Simonne.V. Calhoun	02/23/2024 10:04	Ping Hua	2469615
	02/16/2024	02/22/2024 13:33	Simonne.V. Calhoun	02/23/2024 10:38	Ping Hua	2469617
	02/16/2024	02/22/2024 13:33	Simonne.V. Calhoun	02/23/2024 11:25	Ping Hua	2469609
	02/16/2024	02/22/2024 13:33	Simonne.V. Calhoun	02/23/2024 11:27	Ping Hua	2469611
EPA 353.2 Rev. 2.0	02/16/2024			02/21/2024 11:24	Fadila Guebre	2469615
	02/16/2024			02/21/2024 11:30	Fadila Guebre	2469617
	02/16/2024			02/22/2024 15:14	Fadila Guebre	2469611
	02/16/2024			02/22/2024 15:16	Fadila Guebre	2469613
	02/16/2024			03/06/2024 14:44	Anna M. Plaviak	2469609
EPA 365.1 Rev. 2.0	02/16/2024	02/19/2024 15:27	Adam P Silver	02/20/2024 12:14	Simonne.V. Calhoun	2469613
	02/16/2024	02/19/2024 15:27	Adam P Silver	02/20/2024 16:46	Simonne.V. Calhoun	2469609, 2469611
	02/16/2024	02/21/2024 13:37	Adam P Silver	02/22/2024 09:38	James L Waggerby	2469615
	02/16/2024	02/21/2024 13:37	Adam P Silver	02/22/2024 09:39	James L Waggerby	2469617
EPA 8270E	02/16/2024	02/20/2024 08:30	Rasheda Ghaffari	02/26/2024 22:37	Arthur Maknenko	2469633
	02/16/2024	02/20/2024 08:30	Rasheda Ghaffari	02/28/2024 20:17	Julie Wi	2469633
	02/16/2024	02/21/2024 08:30	Rasheda Ghaffari	02/28/2024 21:51	Lipi Saha	2469632
	02/16/2024	02/21/2024 08:30	Rasheda Ghaffari	03/05/2024 03:09	Julie Wi	2469632
EPA 8276	02/16/2024	02/21/2024 08:30	Rasheda Ghaffari	02/27/2024 03:38	Arthur Maknenko	2469632
EPA 8321B	02/16/2024	02/16/2024 13:00	Hoor Shaik	02/17/2024 03:21	Juyoung Kim	2469630
	02/16/2024	02/20/2024 08:00	Hana Lee	02/20/2024 12:33	Hana Lee	2469631
	02/16/2024	02/20/2024 08:00	Hana Lee	02/20/2024 14:53	Hana Lee	2469631
	02/16/2024	02/22/2024 09:00	Hoor Shaik	02/29/2024 22:54	Juyoung Kim	2469631
SM 2320 B-2011	02/16/2024			02/29/2024 00:43	Adam P Silver	2469610
	02/16/2024			02/29/2024 05:39	Adam P Silver	2469614
	02/16/2024			02/29/2024 05:50	Adam P Silver	2469616
	02/16/2024			02/29/2024 06:37	Adam P Silver	2469612
	02/16/2024			02/29/2024 06:48	Adam P Silver	2469608
SM 2340 B-2011	02/16/2024			02/29/2024 16:49	Chase Roberts	2469637
	02/16/2024			02/29/2024 19:16	Chase Roberts	2469640
	02/16/2024			03/06/2024 20:14	Conrad Hartmann	2469641
	02/16/2024			03/06/2024 21:54	Conrad Hartmann	2469639
	02/16/2024			03/06/2024 22:58	Conrad Hartmann	2469638
SM 2540 C-2015	02/16/2024			02/20/2024 15:41	Yijie Li	2469608, 2469610, 2469612, 2469614, 2469616
SM 2540 D-2015	02/16/2024			02/20/2024 15:41	Yijie Li	2469608, 2469610, 2469612, 2469614, 2469616
SM 4500-F- C-2011	02/16/2024			02/29/2024 05:39	Adam P Silver	2469614
	02/16/2024			02/29/2024 05:50	Adam P Silver	2469616

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	02/16/2024			02/29/2024 06:37	Adam P Silver	2469612
	02/16/2024			02/29/2024 06:48	Adam P Silver	2469608
	02/16/2024			03/06/2024 18:03	Dale L. Simmons	2469610
SM 5310 B-2014	02/16/2024			02/22/2024 21:57	Kenneth H Lee	2469609
	02/16/2024			02/22/2024 22:13	Kenneth H Lee	2469611
	02/16/2024			02/22/2024 22:30	Kenneth H Lee	2469613
	02/16/2024			02/22/2024 22:47	Kenneth H Lee	2469615
	02/16/2024			02/22/2024 23:02	Kenneth H Lee	2469617