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Final

Addendum 2
Laboratory-Specific Worksheets for UXOs 4, 9, 10, 12, 14, and 18

Master Sampling and Analysis Plan East Vieques Terrestrial UXO Sites

Atlantic Fleet Weapons Training Area-Vieques
Former Vieques Naval Training Range
Vieques, Puerto Rico

Prepared for

Department of the Navy
ATLANTIC

Contract No.
N62470-08-D-1000
CTO-037

April 2013

Prepared by

CH2MHILL®

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FINAL

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Virginia Beach, Virginia

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Executive Summary

The *Final Master Sampling and Analysis Plan, East Vieques Terrestrial UXO Sites, Former Vieques Naval Training Range, Vieques, Puerto Rico* (CH2M HILL, 2012) was prepared to guide environmental characterization activities at multiple UXO sites within the former Vieques Naval Training Range (VNTR) that will take place over multiple years. Because of the robust and long-term nature of the Master Sampling and Analysis Plan (SAP), it intentionally does not identify a specific laboratory but instead includes the protocols any selected laboratory is requested to meet. It is therefore designed to be used in conjunction with site-specific addenda that provide laboratory-specific chemistry-related worksheets.

This is the second addendum (i.e., Addendum 2) to the Master SAP and it includes all the laboratory-specific worksheets for analysis of discrete soil, multi-incremental soil, surface water, and sediment samples to be collected from Sites UXO-04, UXO-09, UXO-10, UXO-12, UXO-14, and UXO-18. All station locations and sampling procedures are those presented in the Final Master SAP (CH2M HILL, 2012).

The following laboratories were selected for performing the required analyses:

1. APPL, Inc. in Clovis, CA for all analyses except those listed below
2. ALS Environmental in Fort Collins, CO for analysis of metallic uranium (SW-846 6020A) and radiological uranium (EML U-02 MOD).
3. ALS Environmental in Kelso, WA for analysis of soil oxidation reduction potential (ORP).
4. TestAmerica, Inc. in South Burlington, VT for grain size (sieve) analysis.

The associated laboratory-specific worksheets included in Addendum 2 are:

- Worksheet #15 – Reference Limits and Evaluation Table
- Worksheet #19 – Field Sampling Requirements Table
- Worksheet #23 – Analytical SOP References Table
- Worksheet #24 – Analytical Instrument Calibration Table
- Worksheet #28 – Laboratory QC Samples Table
- Worksheet #30 – Analytical Services Table
- Appendix A – Laboratory DoD ELAP Accreditation Letters

For all other worksheets (i.e., those unchanged or unchanged substantively by selection of the specific laboratories), please refer to the Final Master SAP (CH2M HILL, 2012).

Addendum 2 Worksheet #15 presents laboratory-specific reporting limits and compares them to screening levels (SLs) which are up-to-date as of preparation of this Draft Addendum 2. SLs are subject to change and may be updated over time. The most-recent SLs are always presented in work plans and used for screening in reports. Shading indicates SLs for which the laboratory-specific limit of detection (LOD) is greater than the SL. Potential impact on data usage is discussed in general within Worksheet #11 of the Final Master SAP (CH2M HILL, 2012) and specific instances (i.e., for the selected laboratories) are identified in Worksheets #15 of Addendum 2. For multi-analyte lists, Worksheets #15 also present accuracy and precision limits if the information would be cumbersome within Worksheet #28. These are the accuracy and precision limits which will be used by the selected laboratories to determine QA/QC exceedances, take corrective action if required, etc.

Worksheet #23 lists the handling, preparation, and analysis SOPs relevant to the laboratories and analyses required for this work. Laboratory SOPs which generate definitive data must be revisited if not revised within the last year. Laboratories which generate definitive data must maintain DoD ELAP accreditation when sampling and analysis is being conducted. SOP revisitation and revision dates and DoD ELAP accreditation expiration dates are up-to-date as of preparation of this Draft Addendum 2. Some DoD ELAP accreditation letters do not specify expiration dates; accreditation must be verified through the accrediting body's web page. This information is

intended to be a snapshot and is subject to update over time. Worksheet #23 also states any variance to DoD QSM (there is none for this project) and indicates anywhere an SOP modification or option is necessary due to project requirements.

Worksheet #24 (calibration requirements) is provided only for methods not already described in the Master SAP. The majority of definitive analyses are typical SW-846 methods for which calibration requirements are set by DoD QSM. Therefore, the calibration requirements can remain generic. For this Addendum 2, calibration requirement information is provided only for soil ORP and for isotopic uranium.

Similarly, Worksheet #28 (Laboratory QC Samples and also Field QC samples) is provided only for methods not already described in the Master SAP. The majority of definitive analyses are typical SW-846 methods for which QA/QC sample requirements are set by DoD QSM. Therefore, the QA/QC sample requirements can remain generic. Worksheet #28-0 presents laboratory-specific deviations and clarifications to the multi-incremental sample preparation (i.e. grinding) procedures. It also includes a practical procedure for handling of a multi-incremental sample. For this Addendum 2, laboratory QA/QC sample requirement information is provided only for soil ORP and for isotopic uranium.

These worksheets demonstrate that the laboratories adhere to the Master SAP protocols or, as applicable, provide justification for deviation.

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Attachments

A Laboratory DoD ELAP Accreditation Letters

B Final Responses to PREQB Comments

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SAP Worksheet #15-1 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SB, SS, SMI
Analytical Group: SVOCs

Analyte[1]	CAS No.	RSLs Residential Soil Adjusted[2] (µg/kg)	RSLs Industrial Soil Adjusted[2] (µg/kg)	Ecological Soil ESVs[3] (µg/kg)	SSL[4] (µg/kg)	Project QL Goal[5] (µg/kg)	Laboratory Specific Limits[6] (µg/kg)			A/P Limits (%)		
							LOQs	LODs	DLs	LCL	UCL	%RPD
Hexachloroethane [HCA]	67-72-1	4300	43000	--	0.48	0.48	330	167	49.9	35	110	30
Naphthalene [PAH]	91-20-3	3600	18000	--	0.47	0.47	5	1.67	0.89	40	105	30
2-Methylnaphthalene [PAH]	91-57-6	23000	220000	--	140	70	5	1.67	0.94	45	105	30
2-Chloronaphthalene [PAH]	91-58-7	630000	820000	--	2900	1450	330	167	52.4	45	105	30
Acenaphthylene [PAH]	208-96-8	340000	3300000	--	4100	2050	5	1.67	0.89	45	105	30
Acenaphthene [PAH]	83-32-9	340000	3300000	--	4100	2050	5	1.67	0.97	45	110	30
Fluorene [PAH]	86-73-7	230000	2200000	--	4000	2000	5	1.67	1	50	110	30
Phenanthrene [PAH]	85-01-8	1700000	17000000	--	42000	21000	5	1.67	1.1	50	110	30
Anthracene [PAH]	120-12-7	1700000	17000000	--	42000	21000	5	1.67	0.83	55	105	30
Fluoranthene [PAH]	206-44-0	230000	2200000	--	70000	35000	5	1.67	1.2	55	115	30
Pyrene [PAH]	129-00-0	170000	1700000	--	9500	4750	5	1.67	1.24	45	125	30
Benzo(a)anthracene [PAH]	56-55-3	150	2100	--	10	5	5	1.67	0.91	50	110	30
Chrysene [PAH]	218-01-9	15000	210000	--	1100	550	5	1.67	0.85	55	110	30
Benzo(b)fluoranthene [PAH]	205-99-2	150	2100	--	35	17.5	5	1.67	1.11	45	115	30
Benzo(k)fluoranthene [PAH]	207-08-9	1500	21000	--	350	175	5	1.67	1.04	45	125	30
Benzo(a)pyrene [PAH]	50-32-8	15	210	--	240	7.5	5	1.67	0.93	50	110	30
Indeno(1,2,3-cd)pyrene [PAH]	193-39-5	150	2100	--	200	75	5	1.67	0.9	40	120	30
Dibenz(a,h)anthracene [PAH]	53-70-3	15	210	--	11	5.5	5	1.67	0.92	40	125	30
Benzo(g,h,i)perylene [PAH]	191-24-2	170000	1700000	--	9500	4750	5	1.67	1.34	40	125	30

Notes:

Highlighting indicates screening levels for which the LOD is greater than the screening level. For hexachloroethane and naphthalene, there exists a small range of uncertainty (between 0.48 and 49.9 µg/kg and between 0.47 and 0.89 µg/kg, respectively) where a detection at greater than the SSL but less than the DL would not be reported because it cannot be distinguished from noise. Nondetects will be treated as non-exceedances, and the resulting uncertainty will be discussed in the data quality evaluation report.

1. Samples are analyzed either for Hexachloroethane [HCA] or for PAHs from SOM01.
2. RSLs are current as of November, 2012.
3. Ecological Soil ESVs are current as of August, 2010. The screening level for Total HMW PAHs is 18,000µg/kg and the screening level for Total LMW PAHs is 29,000µg/kg.
4. SSLs are 'Risk-based if not MCL-based' and are current as of November, 2012.
5. The PQL Goal is 1/2 the lesser of applicable screening levels or the lesser of applicable screening levels.
6. Results for non-aqueous samples are reported on a dry-weight basis. For fractions which have been dried prior to analysis, results are reported on an as-received basis (for the dried fraction).

SAP Worksheet #15-2 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SB, SS, SD, SMI
Analytical Group: EXPLO

Analyte[1]	CAS No.	RSLs Residential Soil Adjusted[2] (µg/kg)	RSLs Industrial Soil Adjusted[2] (µg/kg)	Ecological Soil ESVs[3] (µg/kg)	Marine Sediment ESVs[4] (µg/kg)	SSL[5] (µg/kg)	Project QL Goal[6] (µg/kg)	Laboratory Specific Limits[9] (µg/kg)			A/P Limits[8] (%)		
								LOQs	LODs	DLs	LCL	UCL	%RPD
HMX	2691-41-0	380000	4900000	10000	115000	990	495	500	200	80	75	125	20
RDX	121-82-4	5600	24000	10000	891000	0.23	0.23	500	200	80	70	135	20
1,3,5-Trinitrobenzene	99-35-4	220000	2700000	--	7000	1700	850	500	200	79	75	125	20
1,3-Dinitrobenzene	99-65-0	610	6200	--	--	1.4	1.4	450	200	63	80	125	20
Tetryl	479-45-8	24000	250000	10000	72	580	72	500	200	91	10	150	20
Nitrobenzene	98-95-3	4800	24000	2260	21	0.079	0.079	500	200	75	75	125	20
2,4,6-Trinitrotoluene	118-96-7	3600	42000	10000	20000	13	13	500	200	83	55	140	20
4-Amino-2,6-dinitrotoluene	19406-51-0	15000	190000	--	--	23	23	500	200	75	80	125	20
2-Amino-4,6-dinitrotoluene	35572-78-2	15000	200000	80000	--	23	23	500	200	75	80	125	20
2,4-Dinitrotoluene	121-14-2	1600	5500	11000	--	0.28	0.28	500	200	83	80	125	20
2,6-Dinitrotoluene	606-20-2	6100	62000	8500	549	20	20	500	200	83	80	120	20
2-Nitrotoluene	88-72-2	2900	13000	--	--	0.25	0.25	500	200	66	80	125	20
3-Nitrotoluene	99-08-1	610	6200	--	--	1.2	1.2	500	200	71	75	120	20
4-Nitrotoluene	99-99-0	24000	110000	--	--	3.4	3.4	500	200	80	75	125	20
Nitroglycerin	55-63-0	610	6200	--	--	0.66	0.66	500	200	85	68	131	20
PETN	78-11-5	12000	120000	--	--	24	24	2500	1000	579	69	132	20
1,2-Dinitrobenzene (8330 surr)	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*70*	*130*	*N/A*
Picric Acid	88-89-1	--	--	--	--	--	N/A	200	120	60	30	130	20
1,2-Dinitrobenzene (8321 surr)	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*50*	*150*	*N/A*
Perchlorate	14797-73-0	5500	72000	1000	--	--	500	6	4	2	80	120	15

Notes:

Highlighting indicates screening levels for which the LOD is greater than the screening level. For SSLs, there are several compounds where the DL is greater than the screening level. When this occurs, there exists a range of uncertainty (between the DL and the screening level) where a detection at greater than the SSL but less than the DL would not be reported because it cannot be distinguished from noise. For tetryl and nitrobenzene, there exists a small range of uncertainty (between 72 and 91µg/kg and between 21 and 75µg/kg, respectively) where a detection at greater than the marine sediment ESV would not be reported because it cannot be cannot be distinguished from noise. Nondetects will be treated as non-exceedances, and the resulting uncertainty will be discussed in the data quality evaluation report.

1. Full 8330B-list minus 3,5-DNA plus Picric Acid and Perchlorate.
2. RSLs are current as of November, 2012.
3. Ecological Soil ESVs are current as of August, 2010.
4. Marine Sediment ESVs are current as of August, 2010.
5. SSLs are 'Risk-based if not MCL-based' and are current as of November, 2012.
6. The PQL Goal is 1/2 the lesser of applicable screening levels or the lesser of applicable screening levels.
8. DoD QSM v. 4.1 does not provide accuracy limits for soil 8330B. Limits for most compounds are from DoD QSM v. 4.1 for soil 8330A. In-house nominal limits are provided for tetryl and picric acid. In-house statistical limits are provided for PETN and picric acid.
9. Results for non-aqueous samples are reported on a dry-weight basis. For fractions which have been dried prior to analysis, results are reported on an as-received basis (for the dried fraction).

SAP Worksheet #15-3 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SB, SS, SD, SMI
Analytical Group: METAL

Analyte[1]	CAS No.	Method	RSLs Residential Soil Adjusted[2] (mg/kg)	RSLs Industrial Soil Adjusted[2] (mg/kg)	Ecological Soil ESVs[3] (mg/kg)	Marine Sediment ESVs[4] (mg/kg)	SSL[5] (mg/kg)	Project QL Goal[6] (mg/kg)	Laboratory Specific Limits[7] (mg/kg)			A/P Limits (%)		
									LOQs	LODs	DLs	LCL	UCL	%RPD
Aluminum	7429-90-5	6010C	7700	99000	--	18000	23000	3850	10	4	2	80	120	20
Antimony	7440-36-0	6020A	3.1	41	78	2	0.27	0.27	0.2	0.2	0.1	80	120	20
Arsenic	7440-38-2	6020A	0.39	1.6	18	8.2	0.29	0.29	0.5	0.3	0.08	80	120	20
Barium	7440-39-3	6010C	1500	19000	330	48	82	24	0.5	0.4	0.075	80	120	20
Beryllium	7440-41-7	6010C	16	200	40	--	3.2	1.6	0.2	0.2	0.044	80	120	20
Cadmium	7440-43-9	6020A	7	80	32	1.2	0.38	0.19	0.1	0.08	0.03	80	120	20
Calcium	7440-70-2	6010C	--	--	--	--	--	N/A	10	8	5	80	120	20
Chromium	7440-47-3	6020A	0.29	5.6	64	81	180000	0.29	0.5	0.2	0.035	80	120	20
Chromium (hexavalent)	18540-29-9	7196A	0.29	5.6	--	--	0.00059	0.00059	1	0.4	0.23	85	115	30
Cobalt	7440-48-4	6020A	2.3	30	13	10	0.21	0.105	0.1	0.08	0.02	80	120	20
Copper	7440-50-8	6010C	310	4100	70	34	46	17	0.5	0.4	0.094	80	120	20
Iron	7439-89-6	6010C	5500	72000	--	220000	270	135	5	4	0.85	80	120	20
Lead	7439-92-1	6010C	400	800	120	46.7	14	7	0.5	0.4	0.16	80	120	20
Magnesium	7439-95-4	6010C	--	--	--	--	--	N/A	5	4	1.29	80	120	20
Manganese	7439-96-5	6010C	180	2300	220	260	21	10.5	0.5	0.4	0.13	80	120	20
Nickel	7440-02-0	6010C	150	2000	38	20.9	20	10	0.5	0.4	0.068	80	120	20
Potassium	7440-09-7	6010C	--	--	--	--		N/A	100	50	13.9	80	120	20
Selenium	7782-49-2	6020A	39	510	0.52	1	0.26	0.13	0.2	0.1	0.04	80	120	20
Silver	7440-22-4	6010C	39	510	560	1	0.6	0.3	0.1	0.08	0.036	75	120	20
Sodium	7440-23-5	6010C	--	--	--	--	--	N/A	100	50	11.1	80	120	20
Thallium	7440-28-0	6020A	0.078	1	1	--	0.14	0.078	0.1	0.05	0.02	80	120	20
Uranium	7440-61-1	6020A	23	310	TBD	TBD	21	10.5	6.3	1	1	80	120	20
Vanadium	7440-62-2	6010C	39	520	130	57	78	19.5	0.5	0.4	0.1	80	120	20
Zinc	7440-66-6	6010C	2300	31000	120	150	290	60	5	4	1.15	80	120	20

Notes:

Highlighting indicates screening levels for which the LOD is greater than the screening level. For arsenic, a detection at the SSL would be reported, J-qualified if less than the LOQ. For hexavalent chromium, a detection at the residential soil RSL would be reported, J-qualified if less than the LOQ. The SSL for hexavalent chromium, however, is unreasonably low and cannot be achieved using current technology. There exists a range of uncertainty (between 0.00059 and 0.23mg/kg) where a detection at greater than the SSL but less than the DL would not be reported because it cannot be distinguished from noise. The project team will use Chromium (via 6020A) data, pH data, and ORP data in conjunction with hexavalent chromium (via 7196A) data to interpret the hexavalent chromium results. Nondetects will be treated as non-exceedances, and the resulting uncertainty will be discussed in the data quality evaluation report.

1. ILM05-list minus Hg minus CN plus HexCr plus uranium. Uranium is not part of the TAL and is shown only for those samples which require analysis for uranium.
2. RSLs are current as of November, 2012.
3. Ecological Soil ESVs are current as of August, 2010.
4. Marine Sediment ESVs are current as of August, 2010.
5. SSLs are 'Risk-based if not MCL-based' and are current as of November, 2012.
6. The PQL Goal is 1/2 the lesser of applicable screening levels or the lesser of applicable screening levels.
7. Results for non-aqueous samples are reported on a dry-weight basis. For fractions which have been dried prior to analysis, results are reported on an as-received basis (for the dried fraction).

SAP Worksheet #15-4 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SB, SS, SD, SMI
Analytical Group: WCHEM

Analyte[1]	CAS No.[2]	Project Indicator Limit[3] (mg/kg)	Project QL Goal (mg/kg)	Laboratory Specific Limits (mg/kg)		
				LOQs	LODs	DLs
pH (PH units)	PH	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon (TOC)	TOC	N/A	N/A	200	150	100
Redox (MV units)	REDOX	N/A	N/A	N/A	N/A	N/A

Notes:
1. Redox will be analyzed at ALS-Kelso; all other parameters will be analyzed at APPL.
2. Some CAS numbers are contractor-specific.
3. There are no project indicator limits for these WCHEM data. pH data are used to help interpret metals data for ecological receptors. TOC data may be used to create site-specific leaching factors. ORP and pH data are used to help interpret hexavalent chromium results.

SAP Worksheet #15-5 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SB, SS, SD
Analytical Group: RAD

Analyte	CAS No.[1]	Worker Scenario Soil PRGs (pCi/g)	Ecological Soil BSVs (pCi/g)	Project QL Goal[2] (pCi/g)	Laboratory Specific Limits (pCi/g)[3]
					MDC
Uranium-234	13966-29-5	29.1	5000	14.55	0.1
Uranium-235	15117-96-1	30.9	3000	15.45	0.1
Uranium-238	TBD	1.5	2000	0.75	0.1

Notes:
1. The CAS number for Uranium-238 is to be determined.
2. The PQL Goal is 1/2 the lesser of applicable screening levels.
3. The only applicable reporting limit for RAD analysis is the minimum detectable concentration (MDC). LOQ, LOD, and DL do not apply. Two sigma uncertainty is calculated at the time of reporting.
4. Values for protection of ecological receptors are based on DOE's Biota Concentration Guides (BCGs), http://www.hss.doe.gov/nuclearsafety/techstds/docs/standard/1153.htm
5. BSV - Biota Screening Value

SAP Worksheet #15-6 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SW
Analytical Group: EXPLO

Analyte[1]	CAS No.	RSLs Tap Water Adjusted[2] (µg/L)	Marine Surface Water ESVs[3] (µg/L)	PRWQ Class SB & SC (marine for SW)[4] (µg/L)	MCLs (µg/L)	Project QL Goal[5] (µg/L)	Laboratory Specific Limits (µg/L)			A/P Limits (%)[6]		
							LOQs	LODs	DLs	LCL	UCL	%RPD
HMX	2691-41-0	78	--	--	--	39	0.5	0.3	0.115	80	115	30
RDX	121-82-4	0.61	5000	--	--	0.305	0.5	0.3	0.123	50	160	30
1,3,5-Trinitrobenzene	99-35-4	46	15	--	--	7.5	0.5	0.3	0.13	65	140	30
1,3-Dinitrobenzene	99-65-0	0.15	180	--	--	0.15	0.5	0.3	0.131	45	160	30
Tetryl	479-45-8	6.1	8	--	--	3.05	0.5	0.3	0.133	20	175	30
Nitrobenzene	98-95-3	0.12	66.8	690	--	0.12	0.5	0.3	0.126	50	140	30
2,4,6-Trinitrotoluene	118-96-7	0.76	100	--	--	0.38	0.5	0.3	0.133	55	155	30
4-Amino-2,6-dinitrotoluene	19406-51-0	3	--	--	--	1.5	0.5	0.3	0.1	50	155	30
2-Amino-4,6-dinitrotoluene	35572-78-2	3	--	--	--	1.5	0.5	0.3	0.125	50	155	30
2,4-Dinitrotoluene	121-14-2	0.2	480	34	--	0.2	0.5	0.3	0.125	60	135	30
2,6-Dinitrotoluene	606-20-2	1.5	1000	--	--	0.75	0.5	0.3	0.125	60	135	30
2-Nitrotoluene	88-72-2	0.27	--	--	--	0.27	0.5	0.3	0.126	45	135	30
3-Nitrotoluene	99-08-1	0.13	--	--	--	0.13	0.5	0.3	0.133	50	130	30
4-Nitrotoluene	99-99-0	3.7	--	--	--	1.85	0.5	0.3	0.133	50	130	30
Nitroglycerin	55-63-0	0.15	--	--	--	0.15	0.5	0.3	0.13	70	130	20
PETN	78-11-5	3	--	--	--	1.5	2.5	1.5	0.607	65	115	20
1,2-Dinitrobenzene (8330 surr)	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*70*	*130*	*N/A*
Picric Acid	88-89-1	--	--	--	--	N/A	0.2	0.12	0.06	30	130	50
1,2-Dinitrobenzene (8321 surr)	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*50*	*150*	*N/A*
Perchlorate	14797-73-0	1.1	--	--	--	0.55	0.6	0.4	0.2	80	120	15

Notes:

Highlighting indicates screening levels for which the LOD is greater than the screening level. For 1,3-DNT; 2,4-DNT; 2,NT; and NG, a detection at the adjusted tap water RSL would be reported J-qualified if less than the LOQ. For NB and 3-NT, there exists a very small range of uncertainty (between 0.12 and 0.126µg/L and between 0.13 and 0.133µg/L, respectively) where a detection at greater than the RSL would not be reported because it cannot be distinguished from noise. Nondetects will be treated as non-exceedances, and the resulting uncertainty will be discussed in the data quality evaluation report.

1. Full 8330B-list & Picric Acid & Perchlorate
2. RSLs are current as of November, 2012.
3. Marine Surface Water ESVs are current as of August, 2010.
4. PRWQs are current as of August, 2011.
5. The PQL Goal is 1/2 the lesser of applicable screening levels or the lesser of applicable screening levels.
7. DoD QSM v. 4.1 does not provide accuracy limits for NG, PETN, or Picric Acid. In-house limits are provided.

SAP Worksheet #15-7 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SW
Analytical Group: METAL, FMETAL

Analyte[1]	CAS No.	Method	RSLs Tap Water Adjusted[2] (µg/L)	Marine Surface Water ESVs[3] (µg/L)	PRWQ Class SB & SC (marine for SW)[4] (µg/L)	MCLs (µg/L)	Project QL Goal[5] (µg/L)	Laboratory Specific Limits (µg/L)			A/P Limits (%)		
								LOQs	LODs	DLs	LCL	UCL	%RPD
Aluminum	7429-90-5	6010C	1600	--	--	--	800	100	80	27.4	80	120	20
Antimony	7440-36-0	6020A	0.6	500	640	6	0.6	1	0.5	0.14	80	120	20
Arsenic	7440-38-2	6020A	0.045	36	36	10	0.045	0.5	0.2	0.09	80	120	20
Barium	7440-39-3	6010C	290	200	--	2000	100	5.0	4	0.75	80	120	20
Beryllium	7440-41-7	6020A	1.6	100	--	4	0.8	0.2	0.1	0.04	80	120	20
Cadmium	7440-43-9	6020A	0.69	8.85	8.85	5	0.345	0.2	0.1	0.02	80	120	20
Calcium	7440-70-2	6010C	--	--	--	--	N/A	100	50	27.5	80	120	20
Chromium	7440-47-3	6020A	0.031	--	50.35	100	0.031	0.5	0.2	0.07	80	120	20
Chromium (hexavalent)	18540-29-9	7196A	0.031	50.4	50.35	--	0.0155	0.02	0.01	0.006	80	120	20
Cobalt	7440-48-4	6020A	0.47	--	--	--	0.47	1	0.4	0.13	80	120	20
Copper	7440-50-8	6020A	62	3.73	3.73	1300	1.865	0.5	0.4	0.13	80	120	20
Iron	7439-89-6	6010C	1100	50	--	--	25	50	25	9	80	120	20
Lead	7439-92-1	6010C	15	8.52	8.52	15	4.26	5.0	4	1.58	80	120	20
Magnesium	7439-95-4	6010C	--	--	--	--	N/A	50	30	12.9	80	120	20
Manganese	7439-96-5	6010C	32	100	--	--	16	5.0	4	1.23	80	120	20
Nickel	7440-02-0	6010C	30	8.28	8.28	--	4.14	5.0	3	0.42	80	120	20
Potassium	7440-09-7	6010C	--	--	--	--	N/A	1000	500	125	80	120	20
Selenium	7782-49-2	6020A	7.8	71.1	71.14	50	3.9	1	0.4	0.1	80	120	20
Silver	7440-22-4	6020A	7.1	2.24	2.24	--	1.12	0.2	0.1	0.03	80	120	20
Sodium	7440-23-5	6010C	--	--	--	--	N/A	1000	500	111.1	80	120	20
Thallium	7440-28-0	6020A	0.016	21.3	0.47	2	0.016	0.2	0.2	0.1	80	120	20
Uranium	7440-61-1	6020A	4.7	TBD	TBD	--	2.35	0.01	0.01	0.0035	80	120	20
Vanadium	7440-62-2	6010C	7.8	50	--	--	7.8	5.0	4	0.97	80	120	20
Zinc	7440-66-6	6010C	470	85.6	85.62	--	42.8	50	20	13.7	80	120	20

Notes:

Highlighting indicates screening levels for which the LOD is greater than the screening level. For Arsenic and Thallium, there exists a small range of uncertainty (between 0.045 and 0.09µg/L and between 0.016 and 0.1µg/L, respectively) where a detection at greater than the RSL would not be reported because it cannot be distinguished from noise. For chromium, the RSL is that for hexavalent chromium. The adjusted tapwater RSL is 1,600µg/L for trivalent chromium. The hexavalent chromium LOD is less than its screening level. The project team will use chromium (via 6020A) data in conjunction with hexavalent chromium (via 7196A) data to interpret the chromium results. For all three metals, the low-concentration method 6020A is being used. Lower-concentration methods are not available without utilizing specialty analytical techniques, which are not warranted at this time when the full TAL of metals is of interest. Nondetects will be treated as non-exceedances, and the resulting uncertainty will be discussed in the data quality evaluation report.

1. ILM05-list minus Hg minus CN plus HexCr plus uranium. Uranium is not part of the TAL and is shown only for those samples which require analysis for uranium.
2. RSLs are current as of November, 2012.
3. Marine Surface Water ESVs are current as of August, 2010.
4. PRWQs are current as of August, 2011.
5. The PQL Goal is 1/2 the lesser of applicable screening levels or the lesser of applicable screening levels.

SAP Worksheet #15-8 — Reference Limits and Evaluation Table

(UFP-QAPP Manual Section 2.8.1)

Matrix: SW
Analytical Group: RAD, FRAD

Analyte[1]	CAS No.	Residential Scenario GW PRGs[2] (pCi/L)	Residential Scenario SW PRGs[2] (pCi/L)	Ecological Water BSVs[3,4] (pCi/L)	Project QL Goal[5] (pCi/L)	Laboratory Specific Limits (pCi/L)[6]
						MDC
Uranium-234	13966-29-5	0.7	0.7	200	0.35	0.2
Uranium-235	15117-96-1	0.7	0.7	200	0.35	0.2
Uranium-238	TBD	0.6	0.6	200	0.3	0.2

Notes:
1. Ratios of 234/238 and 235/238 are compared to determine whether Uranium is depleted or naturally-occurring. If uranium is determined to be depleted, the U-238 screening criteria will be used as described in Attachment C.
2. Values for protection of human health are based on EPA's Radionuclide PRGs [http://epa-prgs.ornl.gov/radionuclides/]
3. Values for protection of ecological receptors are based on DOE's Biota Concentration Guides (BCGs) [http://www.hss.doe.gov/nuclearsafety/techstds/docs/standard/1153.htm]
4. BSV: "Biota Screening Value"
5. The PQL Goal is 1/2 the lesser of applicable screening levels.
6. The only applicable reporting limit for RAD analysis is the minimum detectable concentration (MDC). LOQ, LOD, and DL do not apply. Two sigma uncertainty is calculated at the time of reporting.

SAP Worksheet #19 — Field Sampling Requirements Table

(UFP-QAPP Manual Section 3.1.1)

Matrix	Analytical Group[1]	Analytical and Preparation Method / SOP Reference	Containers[2]	Sample Volume[3]	Preservation Requirements	Maximum Holding Time
SS/SB	SVOCs	SW-846 3550C, 8270D / SON009, ANA8270	4 oz glass jar	30 g	≤ 6°C but not frozen	14 days / 40 days
SS/SB, SD	EXPLO	SW-846 8330B / HPL8330, MSE018		30 g[4]		14 days / 40 days
		SW-846 8330B, 8321 / MSE018, HPL8321 (for Picric Acid)				
		SW-846 6850 / HPL6850		10 g[5]		28 days
	METAL	SW-846 3050B, 6010C, 6020A / PRE3050B, ANA6010, ANA6020		1 g		6 months
		SW-846 3060A, 7196A / ANA3060A, ANA7196A		2.5 g		30 days, 7 days
	WCHEM	SW-846 9045D / ANA9045D		50 g		ASAP
		Walkley Black / ANAWALKLEY		0.5 g		14 days (same as Lloyd Kahn)
		ASTM D1498 / GEN-CR6		10 g		30 days
	METAL (U-only)	SW-846 6020A / SOP806, SOP827	4 oz glass jar	1 g		6 months
	RAD	EML U-02 MOD / SOP714, SOP 773		30 g		6 months
SD	GRAINSIZE	ASTM D422 / BR-GT-006	16 oz glass jar	500 g	N/A	N/A
SMI	EXPLO	SW-846 8330B / HPL8330, MSE018MIS	1 Gallon bag(s)	30 g[4]	≤ 6°C but not frozen	14 days / 40 days
		SW-846 8330B, 8321 / MSE018, HPL8321 (for Picric Acid)				
		SW-846 6850 / HPL6850		10 g[5]		28 days
	METAL	SW-846 3050B, 6010C, 6020A / PRE3050B, ANA6010, ANA6020		10 g[6]		6 months
		SW-846 3060A, 7196A / ANA3060A, ANA7196A		10 g[6]		30 days, 7 days
	WCHEM	SW-846 9045D / ANA9045D		50 g		ASAP
		Walkley Black / ANAWALKLEY		0.5 g		14 days (same as Lloyd Kahn)
		ASTM D1498 / GEN-CR6		10 g		30 days
	SVOCs (PAHs only)	SW-846 3550C, 8270D / SON009, ANA8270SIM		30 g		14 days / 40 days

SAP Worksheet #19 — Field Sampling Requirements Table (continued)

(UFP-QAPP Manual Section 3.1.1)

Matrix	Analytical Group[1]	Analytical and Preparation Method / SOP Reference	Containers[2]	Sample Volume[3]	Preservation Requirements	Maximum Holding Time
SW	EXPLO	SW-846 3535A, 8330B / MWE3535, HPL8330	2x 1L amber glass	1000 mL[4]	≤ 6°C but not frozen	7 days / 40 days
		SW-846 3535A, 8321 / MWE3535, HPL8321, (for Picric Acid)				
		SW-846 6850 / HPL6850	125 mL PE bottle	5 mL	Field-filter with 0.2um PTFE membrane filter; headspace in jar; ≤ 6°C but not frozen	28 days
	METAL	SW-846 3010A, 6010C, 6020A / PRE3010A, ANA6010, ANA6020	500mL PE bottle	100mL	HNO_3 to pH < 2; ≤ 6°C but not frozen	6 months
		SW-846 7196A / ANA7196A	125mL PE bottle	25 mL	≤ 6°C but not frozen	24 hours
	METAL (U-only)	SW-846 6020A / SOP806, SOP827	250mL PE bottle	250 mL	HNO_3 to pH < 2; ≤ 6°C but not frozen	6 months
	RAD	EML U-02 MOD / SOP776, SOP778, SOP 714	1000mL PE bottle	1000mL	HNO_3 to pH < 2; ≤ 6°C but not frozen	6 months
	FMETAL	Additional containers collected after field-filtering, otherwise identical to SW METALs, above.				
	FRAD	Additional containers collected after field-filtering, otherwise identical to SW RAD, above.				

Notes:
1. All fractions are shipped to APPL.
2. A larger jar may be substituted for the 4 oz glass jars for soil sampling.
3. Fill to capacity. These are minimums required for preparation and/or analysis.
4. Explosives and Picric Acid are analyzed from the same extract
5. APPL will extract 10g of soil for perchlorate rather than the typical 1g. This is intended to provide a more-representative extraction.
6. APPL will digest 10g of SMI for metals rather than the typical 1g. This is intended to provide a more-representative digestion.

SAP Worksheet #23 — Analytical SOP References Table

(UFP-QAPP Manual Section 3.2.1)

Lab SOP Number	Title, Revision Date[1], and/or Number	Date Last Revisited if not Revised[1]	Definitive or Screening Data	Matrix and Analytical Group	Instrument	Organization Performing Analysis[2]	Variance to QSM	Modified for Project Work? (Y/N)
ANA6010	Inductively Coupled Plasma Atomic Emission Spectroscopy by EPA Method 6010; 10/25/12; Rev. 4		Definitive	SMI, SS/SB, SD, SW / METAL, FMETAL	ICP-AES	APPL	None	N
ANA6020	Inductively Coupled Plasma-Mass Spectrometry by EPA Method 6020; 11/15/12; Rev. 2		Definitive	SMI, SS/SB, SD, SW / METAL, FMETAL	ICP-MS	APPL	None	N
ANA7196A	Hexavalent Chromium Analysis (Method 7196A); 8/29/12; Rev. 0		Definitive	SMI, SS/SB, SD, SW / METAL, FMETAL	Spectrophotometer	APPL	None	N
ANA8270SIM	PAH by SIM by EPA Method 8270; 10/9/12; Rev. 0		Definitive	SMI / SVOC	GC-MS	APPL	None	N
ANA8270	Semivolatile Organic Compounds by EPA Method 8270; 8/8/12; Rev. 2		Definitive	SS/SB / SVOC	GC-MS	APPL	None	N
ANAWALKLEY	Total Organic Carbon (TOC) in Soil (Walkley-Black, Modified); 8/6/12; Rev. 0		Screening	SMI, SS/SB, SD / WCHEM	N/A (titration)	ALS-Kelso	None	N
HPL6850	Analysis of Perchlorate in Environmental Samples by EPA 6850; 6/19/12; Rev. 0		Definitive	SMI, SS/SB, SD, SW / EXPLO	HPLC	APPL	None	Y[3]
HPL8321	Method 8321 LC-Mass Spectrometer Analysis of Carbamate / Urea and Nitroaromatic / Nitrosamine Compounds; 9/26/12; Rev. 0		Definitive	SMI, SS/SB, SD, SW / EXPLO (for Picric Acid)	HPLC	APPL	None	N
HPL8330	Explosive Compounds: Diode Array Detector by High Pressure Liquid Chromatography; 8/24/12; Rev. 1		Definitive	SMI, SS/SB, SD, SW / EXPLO	HPLC	APPL	None	N
MWE3535	Solid Phase Extraction for Aqueous Explosive Samples (EPA Method 3535A); 8/28/12; Rev. 0		Definitive	SW / EXPLO	N/A (extraction)	APPL	None	N
PRE3010A	Acid Digestion of Aqueous Samples and Extracts for Total and Dissolved Metals for Analysis by ICP Spectroscopy or ICP Mass Spectroscopy by EPA Method 3010A; 8/7/12; Rev. 0		Definitive	SW / METAL, FMETAL	N/A (digestion)	APPL	None	N
PRE3050B	Acid Digestion of Sediments, Sludges, and Soils by EPA Method 3050B; 8/6/12; Rev. 0		Definitive	SMI, SS/SB, SD / METAL	N/A (digestion)	APPL	None	Y[4]
SEP004	625/8270 Separatory Funnel Extraction of Water (EPA Method 3510C); 8/18/12; Rev. 0		Definitive	AQ (blanks) / SVOC	N/A (extraction)	APPL	None	N
SON009	8270, BNA, SIM, and PAH Sonication Extraction of Soil, Sludge and Solids (EPA Method 3550C); 8/28/12; Rev. 8		Definitive	SMI, SS/SB / SVOC	N/A (extraction)	APPL	None	N
SOP714	Analysis of Alpha Emitting Radionuclides by Alpha Spectrometry; 1/8/13; Rev. 12		Definitive	SS/SB, SD, SW / RAD, FRAD	Alpha Spectrometer	ALS-Fort Collins	None	N
SOP773	Total Dissolution of Solids for the Radiochemical Determination of Actinides and Other Non-Volatile Radionuclides; 1/30/12; Rev/ 12		Definitive	SS/SB, SD / RAD	N/A (preparation)	ALS-Fort Collins	None	N
SOP776	Preparation of Water Samples for Actinides; 1/30/12; Rev/ 13		Definitive	SW / RAD, FRAD	N/A (preparation)	ALS-Fort Collins	None	N
SOP806	Digestion of Waters, Soil, and Wastes for Metals Analysis - Methods SW3005A, SW3050B, EPA 200.2, and CLP SOW ILM3.0 & ILM04.0; 1/4/13; Rev. 15		Definitive	SS/SB, SD, SW / METAL, FMETAL (U only)	N/A (digestion)	ALS-Fort Collins	None	N
SOP827	Determination of Elements by Inductively Coupled Plasma Mass Spectrometry - Methods EPA 200.8 and SW6020A; 2/6/12; Rev. 0		Definitive	SS/SB, SD, SW / METAL, FMETAL (U only)	ICP-MS	ALS-Fort Collins	None	N
ANA3060A	Alkaline Digestion for Hexavalent Chromium (Method 3060A); 9/10/12; Rev. 7		Definitive	SMI, SS/SB, SD / METAL	N/A (digestion)	APPL	None	N
ANA9045D	pH in Soil and Waste (EPA SW846 Method 9045D); 9/10/12; Rev. 17		Screening	SMI, SB/SS, SD / WCHEM	pH Probe	APPL	None	N
BR-GT-006	Particle Size Analysis (ASTM D 2217 and D422-63); 3/17/10; Rev. 6	4/3/2012	Screening	SD / GRAINSIZE	Hydrometer	TestAmerica-Burlington	None	N
ASTM D1498	ALS-Kelso employs ASTM D1498 for analysis of ORP in soil. Due to copyright restrictions, this method is not available for distribution.		Screening	SMI, SB/SS, SD / WCHEM	ORP Probe	ALS-Kelso	None	N
SHR001	Receiving Samples; 9/5/2012; Rev. 43		N/A	N/A	N/A (Receiving)	APPL	None	N
SHR012	Sample Disposal and Waste Collection, Storage and Disposal; 10/9/12; Rev. 13		N/A	N/A	N/A (Disposal)	APPL	None	N
BR-EH-001	Tracking and Collection of Hazardous Waste; 12/20/11; Rev. 14		N/A	N/A	N/A (Disposal)	TestAmerica-Burlington	None	N

SAP Worksheet #23 — Analytical SOP References Table (continued)

(UFP-QAPP Manual Section 3.2.1)

Lab SOP Number	Title, Revision Date[1], and/or Number	Date Last Revisited if not Revised[1]	Definitive or Screening Data	Matrix and Analytical Group	Instrument	Organization Performing Analysis[2]	Variance to QSM	Modified for Project Work? (Y/N)
BR-SM-001	Sample Management; 1/10/12; Rev.11		N/A	N/A	N/A (Receiving)	TestAmerica-Burlington	None	N
SMO-GEN	Sample Receiving; 6/16/12; Rev. 29		N/A	N/A	N/A (Receiving)	ALS-Kelso	None	N
SOP202	Login and Distribution of Samples and Workorders; 4/5/11; Rev. 12		N/A	N/A	N/A (Receiving)	ALS-Fort Collins	None	N
MSE018	EPA Method 8330 Mechanical Orbital Shaker Extraction for Solid Explosive Samples; 8/23/12; Rev. 18		Definitive	SD, SB/SS / EXPLO	N/A (extraction)	APPL	None	N
MSE018MIS	EPA Method 8330B Mechanical Shaker Extraction for Solid Explosive Samples using Incremental sampling (IS) techniques; 7/1/12; Rev. 13		Definitive	SMI / EXPLO	N/A (extraction)	APPL	None	N

Notes:
1. This worksheet was prepared on January 15, 2013. It is intended to be a snapshot as it pertains to dates for SOP revision/revisitation and DoD ELAP accreditation.
2. The laboratories are DoD ELAP accredited for analysis methods they are to perform which will generate definitive data. DoD ELAP certificates are provided in Appendix A:
   APPL's DoD ELAP accreditation through ACLASS is granted through October 23, 2013.
   ALS-Fort Collins' DoD ELAP accreditation through L-A-B is granted through June 1, 2013.
   ALS-Kelso's DoD ELAP accreditation through PJLA was issued July 19, 2011 (no expiration date is specified).
   TestAmerica-Burlington's DoD ELAP accreditation through L-A-B is granted through October 26, 2013.
3. APPL will extract 10g of soil for perchlorate rather than the typical 1g. This is intended to provide a more-representative extraction.
4. APPL will digest 10g of SMI for metals rather than the typical 1g. This is intended to provide a more-representative digestion.

SAP Worksheet #24 — Analytical Instrument Calibration Table

(UFP-QAPP Manual Section 3.2.2)

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action	Person Responsible for Corrective Action	SOP Reference
ORP Probe	Electrode zero	Daily	±0.5mV	Correct the problem and repeat the electrode zero.	Analyst	ASTM D1498
	Check to Standard Redox Solution	Daily	Within ±30mV of expected value. A second reading (from fresh solution) within ±10mv of first reading	Correct the problem and repeat the check.		
Alpha Spectrometer	Energy Calibration	Weekly	The initial calibration is used as baseline. Warning limits are set ±40keV from the initial value. Control limits are set ±50keV from the initial value.	Record failure in the Alpha Spectroscopy Maintenance Log. Check source integrity, detector configuration, recount and reprocess: Tag detector off-line; Determine and correct problem; or Narrate why condition is acceptable.	Analyst	SOP714
	Efficiency Calibration	Weekly	The initial calibration is used as baseline. Warning limits are set at 3.33% of the initial value. Control limits are set 5% of the initial value.	Record failure in the Alpha Spectroscopy Maintenance Log. Check source position and integrity, detector configuration, recount and reprocess; Tag detector off-line; Determine and correct problem; or Narrate why condition is acceptable.	Analyst	
	Background Calibration	Weekly long background	U/Th detectors - the warning limit is set at 500 counts & the control limit is set at 750 counts, both over the entire spectrum. All other detectors - the warning limit is 100 counts and the control limit is 150 counts.	Clean chamber and detector, repeat check; Tag detector off-line; Determine and correct problem, re-establish limits; or Narrate why condition is acceptable.	Analyst	
	Vacuum Check	Weekly	< 100 milliTorr	Check/replace seals; locate and repair leak; or call service.	Analyst	
	Chemical Yield	Each sample	Each sample meets current control limits for analysis.	Re-prep; or Qualify or Narrate why condition is acceptable	Analyst	
	Regions of Interest (ROI)	Adjust ROI as needed	ROI is properly set, tailing does not compromise quantitation	Adjust ROI's to fit identified peaks; For tailing, cleanup or re-prep and recount affected samples, consult with Supervisor; Qualify or Narrate why condition is acceptable	Analyst	
	Spectral Interferences	Evaluate each spectrum for spectral interferences	Interfering activity does not compromise quantitation	Recount; Clean-up, re-prep/ recount affected samples; Consult with Supervisor or Department Manager; Determine and correct problem; or Qualify or Narrate why condition is acceptable	Analyst	

Notes:

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SAP Worksheet #28-0 — Laboratory QC Samples Table

(UFP-QAPP Manual Section 3.4)

Matrix: SMI
Analytical Group: SVOC, EXPLO, METAL, WCHEM
Analytical Method / SOP Reference: SW-846 8330B (preparation)

Deviations from Master SAP:

1. Ground LCS (or CRM) frequency will be 'one per site' rather than 'one per preparatory batch'. Because the standard material is unreasonably-expensive, many projects waive the requirement for this QC sample. However, this project will simply use a reduced frequency in order to avoid being excessive.
2. A gloved hand is not used to break up pieces of soil during the soil sieving procedure. Instead, a mortar and pestle is used (if necessary) prior to the #10 sieve.
3. WCHEM (pH, TOC, and ORP) do not require grinding. However, they will be hand-ground along with the METAL and SVOA fraction.

Clarifications to Master SAP:

1. SVOAs are hand-ground due to the heat generated during the grinding process. This is done simultaneously with the METALs (and WCHEM) fraction.

Laboratory Preparation of a Multi-Incremental Sample:

1. The sample material is dried.
2. The sample material is #10 sieved. If necessary, a mortar and pestle is used to break up soil clumps.
3. Calculate how much soil does not require mechanical grinding (depending on the requested analyses other than EXPLO):
   a. 10g for 6010/6020 metals.
   b. 2.5g for HexCr.
   c. 30g for SVOCs.
   d. 5g for TOC
   e. 50g for pH
   f. 10g for ORP
   g. Multiply by 2 (remove twice that needed for analytical preparation) for potential re-extraction/reanalysis.
4. Subsample (30 or more increments) that soil, per #3 above, which does not require mechanical grinding.
5. The remainder of the soil is mechanically-ground with the puck mill grinder.
   a. Selected option: one 90s cycle (per MSE018MIS).
   b. Not selected: Five 60s cycles separated by two minute cool-down periods (because samples are not expected to contain NC-based residues).
6. Subsample (30 or more increments) the soil which has been mechanically-ground via puck mill as described in 8330B.
   a. 30g for Explosives and Picric Acid (same extraction)
   b. 10g for Perchlorate
7. Hand-grind (using equipment suitable for metals) the soil from #4, above.
8. Subsample (30 or more increments) from the soil which has been hand-ground.

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SAP Worksheet #28-1 — Laboratory QC Samples Table

(UFP-QAPP Manual Section 3.4)

Matrix: SB/SS, SD, SMI
Analytical Group: WCHEM (ORP)
Analytical Method / SOP Reference: ASTM D1498

QC Sample	Frequency & Number	Method/SOP QC Acceptance Limits	Corrective Action	Person(s) Responsible for Corrective Action	DQI	Measurement Performance Criteria
Field QA/QC Samples						
Temperature Blank	One per cooler	≤ 6°C but not frozen	Notify project chemist. Assess sample packaging and shipment procedures. Consider recollection if the exceedance may cause data rejection. Qualify as per Worksheet #36.	Laboratory PM, PC, PM/FTL, Data Validator	Representativeness	≤ 6°C but not frozen
ORP via ASTM D1498						
Laboratory Replicate (LR)	One per batch of 20 or fewer samples	≤ 30% RPD	Repeat until QC acceptance limits are met. Narrate as "difficult sample matrix" if the system is slow to stabilize and thus will not yield a meaningful result.	Analyst	Precision	≤ 30% RPD

Notes:

SAP Worksheet #28-2 — Laboratory QC Samples Table

(UFP-QAPP Manual Section 3.4)

Matrix: SB/SS, SD
Analytical Group: RAD
Analytical Method / SOP Reference: EML U-02 Mod / SOP714, SOP773, SOP778

QC Sample	Frequency & Number	Method/SOP QC Acceptance Limits[1]	Corrective Action	Person(s) Responsible for Corrective Action	DQI	Measurement Performance Criteria
Field QA/QC Samples						
Field Duplicate	One per 10 normal field samples per matrix	%RPD < 30%	Assess laboratory homogenization procedures and precision. Examine laboratory replicate. Assess field homogenization procedures. Qualify as per Worksheet #36.	PM/FTL, Data Validator	Precision	%RPD < 30%
Equipment Blank	One per day per equipment type (when decontaminated). One per event per equipment type (when disposable).	Same as method blank (see below)	Assess decontamination procedures. Consider recollection if the exceedance may cause data rejection. Qualify as per Worksheet #36.	Laboratory PM, PM/FTL, Data Validator	Contamination	Same as method blank (see below)
Temperature Blank	One per cooler	≤ 6°C but not frozen	Notify project chemist. Assess sample packaging and shipment procedures. Consider recollection if the exceedance may cause data rejection. Qualify as per Worksheet #36.	Laboratory PM, PC, PM/FTL, Data Validator	Representativeness	≤ 6°C but not frozen
Radiological Uranium via EML U-02 Mod						
Method Blank	One per preparatory batch.	The method blank Minimum Detectable Activity (MDA) shall be less than the Required Detection Limit (RDL). The method blank result is acceptable if less than the associated MDA. The method blank results shall be less than 2X the blank combined standard uncertainty (CSU).	Sample results are affected if the sample activity is less than 5X the blank activity for a positive method blank. If the method blank acceptance criteria are not met, a reprep/recount form is initiated and corrective actions identified, up to and including reanalysis of all affected samples in the QC batch.	Analyst	Contamination	Same as Method/SOP QC Acceptance Limits
Laboratory Replicate	One per 10 normal field samples per matrix	DER < 2.13	Assess laboratory homogenization procedures and precision. Examine laboratory replicate. Assess field homogenization procedures. Qualify as per Worksheet #36.	Analyst	Precision	DER < 2.13
Laboratory Control Sample (LCS)	One per preparatory batch, spiked at greater than 5X but less than 20X the RDL. Only one isotope need be spiked because all isotopes are reported in a single measurement.	75-125%R	A recount/reprep form is initiated and corrective actions are identified. In some cases, for example potential high bias associated with nondetect results, LCS exceedance may not be relevant. In these instances, the results are reported and the exceedance will be narrated.	Analyst	Accuracy	75-125%R
Laboratory Control Sample Duplicate (LCSD)	As necessary if volume does not permit a sample duplicate	Same as LCS and DER < 2.13.	Same as for LCS. Note that if both LCS and LCSD are outside specifications, all associated samples are re-prepared. If re-preparation is not possible (due to insufficient volume), results must be reported with qualification.	Analyst	Accuracy/Precision	Same as Method/SOP QC Acceptance Limits
Tracer	Each sample and QC sample, after sub-sampling but before any chemical treatment.	30-110%R	Affected samples are re-prepared and reanalyzed. Corrective action is not necessary if 400 tracer counts are observed, peak resolution criteria are met, and there is not evidence of interfering spectral activity. Exceedances and corrective action are noted in the case narrative.	Analyst	Accuracy	30-110%R

Notes:

1. DER refers to the duplicate error ratio.

SAP Worksheet #28-3 — Laboratory QC Samples Table

(UFP-QAPP Manual Section 3.4)

Matrix: SW
Analytical Group: RAD, FRAD
Analytical Method / SOP Reference: EML U-02 Mod / SOP714, SOP776, SOP778

QC Sample	Frequency & Number	Method/SOP QC Acceptance Limits[1]	Corrective Action	Person(s) Responsible for Corrective Action	DQI	Measurement Performance Criteria
Field QA/QC Samples						
Field Duplicate	One per 10 normal field samples per matrix	%RPD < 20%	Assess laboratory homogenization procedures and precision. Examine laboratory replicate. Assess field homogenization procedures. Qualify as per Worksheet #36.	PM/FTL, Data Validator	Precision	%RPD < 20%
Equipment Blank	One per day per equipment type (when decontaminated). One per event per equipment type (when disposable).	Same as method blank (see below)	Assess decontamination procedures. Consider recollection if the exceedance may cause data rejection. Qualify as per Worksheet #36.	Laboratory PM, PM/FTL, Data Validator	Contamination	Same as method blank (see below)
Temperature Blank	One per cooler	≤ 6°C but not frozen	Notify project chemist. Assess sample packaging and shipment procedures. Consider recollection if the exceedance may cause data rejection. Qualify as per Worksheet #36.	Laboratory PM, PC, PM/FTL, Data Validator	Representativeness	≤ 6°C but not frozen
Radiological Uranium via EML U-02 Mod						
Method Blank	One per preparatory batch.	The method blank Minimum Detectable Activity (MDA) shall be less than the Required Detection Limit (RDL). The method blank result is acceptable if less than the associated MDA. The method blank results shall be less than 2X the blank combined standard uncertainty (CSU).	Sample results are affected if the sample activity is less than 5X the blank activity for a positive method blank. If the method blank acceptance criteria are not met, a reprep/recount form is initiated and corrective actions identified, up to and including reanalysis of all affected samples in the QC batch.	Analyst	Contamination	Same as Method/SOP QC Acceptance Limits
Laboratory Replicate	One per 10 normal field samples per matrix	DER < 2.13	Assess laboratory homogenization procedures and precision. Examine laboratory replicate. Assess field homogenization procedures. Qualify as per Worksheet #36.	Analyst	Precision	DER < 2.13
Laboratory Control Sample (LCS)	One per preparatory batch, spiked at greater than 5X but less than 20X the RDL. Only one isotope need be spiked because all isotopes are reported in a single measurement.	75-125%R	A recount/reprep form is initiated and corrective actions are identified. In some cases, for example potential high bias associated with nondetect results, LCS exceedance may not be relevant. In these instances, the results are reported and the exceedance will be narrated.	Analyst	Accuracy	75-125%R
Laboratory Control Sample Duplicate (LCSD)	As necessary if volume does not permit a sample duplicate	Same as LCS and DER < 2.13.	Same as for LCS. Note that if both LCS and LCSD are outside specifications, all associated samples are re-prepared. If re-preparation is not possible (due to insufficient volume), results must be reported with qualification.	Analyst	Accuracy/Precision	Same as Method/SOP QC Acceptance Limits
Tracer	Each sample and QC sample, after sub-sampling but before any chemical treatment.	30-110%R	Affected samples are re-prepared and reanalyzed. Corrective action is not necessary if 400 tracer counts are observed, peak resolution criteria are met, and there is not evidence of interfering spectral activity. Exceedances and corrective action are noted in the case narrative.	Analyst	Accuracy	30-110%R

Notes:
1. DER refers to the duplicate error ratio.

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SAP Worksheet #30 — Analytical Services Table

(UFP-QAPP Manual Section 3.5.2.3)

Matrix	Analytical Group	Sample Locations / ID Numbers	Analytical SOP	Data Package Turnaround Time	Laboratory[1] / Organization	Backup Laboratory / Organization
SB/SS	SVOCs (PAHs only)	13	SW-846 8270D_SIM / SON009, ANA8270SIM for PAHs, ANA8270 for HCA	Standard 28 Calendar-day TAT	APPL, Inc. 908 North Temperance Avenue Clovis, CA (559) 275-2175 POC: Cynthia Clark	TBD
	SVOCs (Hexachloroethane only)	3				
	EXPLO	236	SW-846 8330B / MSE018, HPL8330			
			SW-846 8321 / HPL8321			
			SW-846 6850 / HPL6850			
	METAL		SW-846 6010C / ANA6010, PRE3050B			
			SW-846 6020A / PRE3050B, ANA6020			
			SW-846 7196 / ANA7196A, ANA3060A			
	METAL (U-only)	24	SW-846 6020A / SOP806, SOP827		ALS Environmental - Fort Collins 225 Commerce Drive Fort Collins, CO 80524 (970) 490-1511 POC: Jeff Kujawa	
	WCHEM	236	Walkley-Black / ANAWALKLEY		APPL	
			SW-846 9045D / ANA9045D			
			ASTM D1498		ALS Environmental - Kelso 1317 S. 13th Avenue Kelso, WA 98626 (360) 577-7222 POC: Howard Holmes	
	RAD	24	EML U-02 MOD / SOP714, SOP773		ALS - Fort Collins	

SAP Worksheet #30 — Analytical Services Table (continued)

(UFP-QAPP Manual Section 3.5.2.3)

Matrix	Analytical Group	Sample Locations / ID Numbers	Analytical SOP	Data Package Turnaround Time	Laboratory[1] / Organization	Backup Laboratory / Organization
SD	EXPLO	50	SW-846 8330B / MSE018, HPL8330	Standard 28 Calendar-day TAT	APPL	TBD
			SW-846 8321 / HPL8321			
			SW-846 6850 / HPL6850			
	METAL		SW-846 6010C / ANA6010, PRE3050B			
			SW-846 6020A / PRE3050B, ANA6020			
			SW-846 7196 / ANA7196A, ANA3060A			
	METAL (U-only)	15	SW-846 6020A / SOP806, SOP827		ALS - Fort Collins	
	WCHEM	50	Walkley-Black / ANAWALKLEY		APPL	
			SW-846 9045D / ANA9045D			
			ASTM D1498		ALS - Kelso	
	GRAINSIZE		ASTM D422 / BR-GT-006		Test America - Burlington 30 Community Drive, Suite 11 South Burlington, VT 05403 (802) 660-1990 POC: Don Dawicki	
	RAD	15	EML U-02 MOD / SOP714, SOP773		ALS - Fort Collins	
SMI	SVOCs (PAHs only)	2	SW-846 8270D_SIM / SON009, ANA8270SIM	Standard 28 Calendar-day TAT	APPL	TBD
	EXPLO	129	SW-846 8330B / MSE018MIS, HPL8330			
			SW-846 8321 / HPL8321			
			SW-846 6850 / HPL6850			
	METAL		SW-846 6010C / ANA6010, PRE3050B			
			SW-846 6020A / PRE3050B, ANA6020			
			SW-846 7196 / ANA7196A, ANA3060A			
	WCHEM		Walkley-Black / ANAWALKLEY			
			SW-846 9045D / ANA9045D			
			ASTM D1498		ALS - Kelso	

SAP Worksheet #30 — Analytical Services Table (continued)

(UFP-QAPP Manual Section 3.5.2.3)

Matrix	Analytical Group	Sample Locations / ID Numbers	Analytical SOP	Data Package Turnaround Time	Laboratory[1] / Organization	Backup Laboratory / Organization
SW	EXPLO	41	SW-846 8330B / MWE3535, HPL8330	Standard 28 Calendar-day TAT	APPL	TBD
			SW-846 8321 / HPL8321			
			SW-846 6850 / HPL6850			
	METAL, FMETAL		SW-846 6010C / ANA6010, PRE3010A			
			SW-846 6020A / PRE3010A, ANA6020			
			SW-846 7196 / ANA7196A			
	METAL, FMETAL (U-only)	6	SW-846 6020A / SOP806, SOP827		ALS - Fort Collins	
	RAD, FRAD		EML U-02 MOD / SOP714, SOP776			

Notes:
1. All fractions are shipped to APPL.

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Attachment A
Laboratory DoD ELAP Accreditation Letters

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CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board/ACLASS

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

APPL, Inc.
908 N. Temperance Avenue
Clovis, CA 93611

has been assessed by ACLASS
and meets the requirements of

ISO/IEC 17025:2005 and DoD-ELAP

while demonstrating technical competence in the field(s) of

TESTING

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of tests to which this accreditation applies.

ADE-1410

Certificate Number

ACLASS Approval

Certificate Valid: 10/23/2011-10/23/2013
Version No. 003 Issued: 12/08/2011

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated January 2009*).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 & DoD-ELAP

APPL, Inc.

908 N. Temperance Avenue, Clovis, CA 93611
Diane Anderson Phone: 559-275-2175

TESTING

Valid to: October 23, 2013 Certificate Number: ADE- 1410

I. Environmental

MATRIX	SPECIFIC TEST or GROUP OF ANALYTES**	SPECIFICATION OR STANDARD METHOD (all EPA unless specified)	* KEY EQUIPMENT OR TECHNOLOGY USED
Water / Wastewater	Acid Digestion for Metals Analysis	3010A	
Solid / Solid Waste	Acid digestion for Metals Analysis	3050B	
Water / Wastewater	Mercury Digestion and Analysis	245.1 / 7470A	AAS
Solid / Solid Waste	Mercury Digestion and Analysis	7471B	AAS
Water / Wastewater	Microwave assisted Acid Digestion for Metals Analysis	3015A	Microwave
Solid / Solid Waste	Microwave assisted Acid Digestion for Metals Analysis	3051A	Microwave
Water / Wastewater	Purge and Trap for Aqueous Samples	5030B / 5030C	
Solid / Solid Waste	Closed-system purge and trap extraction for VOA analysis	5035 / 5035A	
Water / Wastewater	Separatory Funnel Extraction	3510C	
Solid / Solid Waste	Ultrasonic Extraction	3550B	Ultrasonic waterbath

MATRIX	SPECIFIC TEST or GROUP OF ANALYTES**	SPECIFICATION OR STANDARD METHOD (all EPA unless specified)	* KEY EQUIPMENT OR TECHNOLOGY USED
Solid / Solid Waste	Soxhlet Extraction	3540C	Soxhlet Extractors
Water / Wastewater	Liquid-Liquid Extraction	3520C	Liquid-Liquid Extractor
Water / Wastewater / Solid / Solid Waste	Silica gel cleanup	3630C	
Solid / Solid Waste	Incremental sampling	8330B, Appendix A	Puck mill grinder
Water / Wastewater / Solid / Solid Waste	Sulfur cleanup	3660B	
Water / Wastewater / Solid / Solid Waste	Sulfuric acid – permanganate cleanup	3665A	
Water / Wastewater / Solid / Solid Waste	Gel permeation cleanup	3640A	
Solid / Solid Waste	TCLP extraction	1311	Rotary Tumbler
Solid / Solid Waste	SPLP extraction	1312	Rotary Tumbler
Solid / Solid Waste	Waste Extraction Test (WET)	CCR Chapter 11, Article 5, Appendix II	Rotary Tumbler
Water / Wastewater	Total Dissolved Solids	160.1 / 2540C	Gravimetric
Water / Wastewater	Total Suspended Solids	2540D	Gravimetric
Water / Wastewater	Anion analysis	300.0 / 9056 / 9056A	Dionex Ion Chromatography
Solid / Solid Waste	Anion analysis	9056 / 9056A	Dionex Ion Chromatography

MATRIX	SPECIFIC TEST or GROUP OF ANALYTES**	SPECIFICATION OR STANDARD METHOD (all EPA unless specified)	* KEY EQUIPMENT OR TECHNOLOGY USED
Water / Wastewater / Solid / Solid Waste	Perchlorate analysis	314.0	Dionex Ion Chromatography
Water / Wastewater / Solid / Solid Waste	Ammonia	350.1	Lachat Flow Injection Analysis
Water / Wastewater / Solid / Solid Waste	TKN	351.2	Lachat Flow Injection Analysis
Water / Wastewater / Solid / Solid Waste	Nitrate / Nitrite	353.2	Lachat Flow Injection Analysis
Water / Wastewater / Solid / Solid Waste	Sulfide	4200S2F	Titrimetric
Drinking Water / Water / Wastewater / Solid / Solid Waste	PCB Congeners	1668A	High Resolution GC/MS
Water / Wastewater / Solid / Solid Waste	Perchlorate	6850	HPLC/Electrospray Ionization/MS
Water / Wastewater	Oil & Grease	1664A	Gravimetric
Water / Wastewater	Oil & Grease	SM 5520B	Gravimetric
Water / Wastewater	TRPH	SM 5520BF	Gravimetric
Water / Wastewater / Solid / Solid Waste	Total Metals	6010B / 6010C	ICP
Water / Wastewater / Solid / Solid Waste	Total Metals	6020 / 6020A	ICP/MS
Water / Wastewater / Solid / Solid Waste	Hexavalent Chromium	7196A	UV/Vis
Solid / Solid Waste	Alkaline digestion of Hexavalent Chromium	3060A	

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MATRIX	SPECIFIC TEST or GROUP OF ANALYTES**	SPECIFICATION OR STANDARD METHOD (all EPA unless specified)	* KEY EQUIPMENT OR TECHNOLOGY USED
Water / Wastewater / Solid / Solid Waste	Hexavalent Chromium	218.6 / 7199	Dionex Ion Chromatography
Water / Wastewater / Solid / Solid Waste	Total Cyanide Distillation	9010C	Midi-Distillation unit
Water / Wastewater / Solid / Solid Waste	Total Cyanide Analysis	9014	UV/Vis
Water / Wastewater	Corrosivity - pH	9040C	Ion Selective Electrode
Solid / Solid Waste	Corrosivity - pH	9045D	Ion Selective Electrode
Water / Wastewater / Solid / Solid Waste	Chlorinated & Brominated Hydrocarbons	8011	GC/ECD
Water / Wastewater / Solid / Solid Waste	DRO/GRO	8015B/C/D	GC/FID
Water / Solid	OP Pesticides	8141A / 8141B	GC/ECD
Water / Wastewater / Solid / Solid Waste	OCL Pesticides	8081A / 8081B	GC/ECD
Water / Waste Water	PCB	608	GC/ECD
Water / Wastewater / Solid / Solid Waste	PCB	8082 / 8082A	GC/ECD
Water / Wastewater / Solid / Solid Waste	Herbicides	8151A	GC/ECD
Water / Wastewater / Solid / Solid Waste	VOA	8260B / 8260C	GC/MS
Water / Wastewater / Solid / Solid Waste	PAH	8270C SIM / 8270D SIM	GC/MS
Water / Wastewater / Solid / Solid Waste	Semi-VOA	8270C / 8270D	GC/MS

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MATRIX	SPECIFIC TEST or GROUP OF ANALYTES**	SPECIFICATION OR STANDARD METHOD (all EPA unless specified)	* KEY EQUIPMENT OR TECHNOLOGY USED
Water / Wastewater / Solid / Solid Waste	Dioxins	8290	HRGC/HRMS
Water / Wastewater / Solid / Solid Waste	Nitroaromatics & Nitramines & Nitroguanadine PGDN Picric Acid	8330A / 8330B / 8321A	HPLC
Water / Wastewater / Solid / Solid Waste	Carbamates	8321A	HPLC
Solid / Solid Waste	Ignitability	1030	
Solid / Solid Waste	TOC	Walkley-Black	Titration
Water	DOC / TOC	SM 5310B / 9060A	TOC Analyzer
Water	Ethane / Ethene / Methane	RSK175	GC / FID
Water	Alkalinity	SM 2320B	Titrimetric
Water	MBAS	SM 5540C	UV/Vis
Water	Electrical Conductance	SM 2510B	EC meter

Notes:

1. ** = As Applicable*
2. *** = Refer to Accredited Analytes Listing for specific analytes in which the laboratory is accredited*
3. *This scope is part of and must be included with the Certificate of Accreditation No. ADE- 1410*

Vice President

500 Montgomery St. Suite 625 | Alexandria, VA 22314 | 703-836-0025 | www.aclasscorp.com

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
WP Minerals #1	55144	1955	Total Dissolved Solids (TDS)	160.1	Approved
Oil & Grease	4120	1860	Oil & Grease	1664A	Approved
Oil & Grease - n-Hexadecane & Stearic	55084	1860	Oil & Grease	1664A	Approved
PCB Congeners in Water	PEO-403	9070	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	1668A	Approved
PCB Congeners in Water	PEO-403	9025	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	1668A	Approved
PCB Congeners in Water	PEO-403	9040	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	1668A	Approved
PCB Congeners in Water	PEO-403	8980	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	1668A	Approved
PCB Congeners in Water	PEO-403	8955	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	1668A	Approved
PCB Congeners in Water	PEO-403	9085	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	1668A	Approved
PCB Congeners in Water	PEO-403	9050	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	1668A	Approved
PCB Congeners in Water	PEO-403	9045	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	1668A	Approved
PCB Congeners in Water	PEO-403	8985	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	1668A	Approved
PCB Congeners in Water	PEO-403	9055	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	1668A	Approved
PCB Congeners in Water	PEO-403	9005	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	1668A	Approved
PCB Congeners in Water	PEO-403	8995	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	1668A	Approved
PCB Congeners in Water	PEO-403	9000	2,3',4,4',5'-Pentachlorobiphenyl (PCB 123)	1668A	Approved
PCB Congeners in Water	PEO-403	8936	2,4,4'-Trichlorobiphenyl (PCB 28)	1668A	Approved
PCB Congeners in Water	PEO-403	9060	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	1668A	Approved
PCB Congeners in Water	PEO-403	9015	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	1668A	Approved
PCB Congeners in Water	PEO-403	8965	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	1668A	Approved
PCB Congeners in Water	PEO-403	8970	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	1668A	Approved
PCB Congeners in Water	PEO-403	9025	PCB (129)+(138)+(163)	1668A	Approved
PCB Congeners in Water	PEO-403	9040	PCB (153)+(168)	1668A	Approved
PCB Congeners in Water	PEO-403	9046	PCB (156)+(157)	1668A	Approved
PCB Congeners in Water	PEO-403	9070	PCB (180)+(193)	1668A	Approved
PCB Congeners in Water	PEO-403	8936	PCB (20)+(28)	1668A	Approved
PCB Congeners in Water	PEO-403	8980	PCB (90)+(101)+(113)	1668A	Approved
PCB Congeners in Water	PEO-403	8870	PCBs, total	1668A	Approved
WP Hexavalent Chromium	55096	1045	Chromium VI	218.6	Approved
SWA Anions	55131	1540	Bromide	300.0	Approved
WP Minerals #1	55144	1575	Chloride	300.0	Approved
WP & DMRQA Nutrients	55035	1810	Nitrate as N	300.0	Approved
WP & DMRQA Nutrients	55035	1870	Orthophosphate as P	300.0	Approved
WP Nitrate & Nitrite	55130	1810	Nitrate as N	300.0	Approved
WP Nitrate & Nitrite	55130	1820	Nitrite + Nitrate as N	300.0	Approved
WP Nitrate & Nitrite	55130	1840	Nitrite as N	300.0	Approved
WP Minerals #2	55145	1730	Fluoride	300.0	Approved
WP Minerals #2	55145	2000	Sulfate	300.0	Approved
WP Perchlorate	55116	1895	Perchlorate	314.0	Approved
WP & DMRQA Nutrients	55035	1515	Ammonia as N	350.1	Approved
WP & DMRQA Nutrients #2	55064	1795	Total Kjeldahl Nitrogen	351.2	Approved
WP & DMRQA Nutrients	55035	1810	Nitrate as N	353.2	Approved
WP Nitrate & Nitrite	55130	1810	Nitrate as N	353.2	Approved
WP Nitrate & Nitrite	55130	1820	Nitrite + Nitrate as N	353.2	Approved
WP Nitrate & Nitrite	55130	1840	Nitrite as N	353.2	Approved
WP & DMRQA Trace Elements	55024	1000	Aluminum	6010B	Approved
WP Trace Elements	55025	1005	Antimony	6010B	Approved
WP & DMRQA Trace Elements	55024	1010	Arsenic	6010B	Approved
WP Trace Elements	55025	1015	Barium	6010B	Approved
WP Trace Elements	55025	1015	Barium	6010B	Approved
WP Trace Elements	55025	1020	Beryllium	6010B	Approved
WP Trace Elements	55025	1020	Beryllium	6010B	Approved
WP Trace Elements	55025	1025	Boron	6010B	Approved
WP & DMRQA Trace Elements	55024	1030	Cadmium	6010B	Approved
WP Minerals #1	55144	1035	Calcium	6010B	Approved
WP & DMRQA Trace Elements	55024	1040	Chromium	6010B	Approved
WP & DMRQA Trace Elements	55024	1050	Cobalt	6010B	Approved
WP & DMRQA Trace Elements	55024	1055	Copper	6010B	Approved
WP & DMRQA Trace Elements	55024	1070	Iron	6010B	Approved
WP & DMRQA Trace Elements	55024	1075	Lead	6010B	Approved
WP Minerals #1	55144	1085	Magnesium	6010B	Approved
WP & DMRQA Trace Elements	55024	1090	Manganese	6010B	Approved
WP Trace Elements	55025	1100	Molybdenum	6010B	Approved
WP & DMRQA Trace Elements	55024	1105	Nickel	6010B	Approved
WP Minerals #2	55145	1125	Potassium	6010B	Approved
WP & DMRQA Trace Elements	55024	1140	Selenium	6010B	Approved
WP Trace Elements	55025	1150	Silver	6010B	Approved
WP Minerals #2	55145	1155	Sodium	6010B	Approved
WP Trace Elements	55025	1160	Strontium	6010B	Approved
WP Trace Elements	55025	1165	Thallium	6010B	Approved
WP Tin	55095	1175	Tin	6010B	Approved
WP Tin	55095	1175	Tin	6010B	Approved
WP Trace Elements	55025	1180	Titanium	6010B	Approved
WP & DMRQA Trace Elements	55024	1185	Vanadium	6010B	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
WP & DMRQA Trace Elements	55024	1190	Zinc	6010B	Approved
NPTA			Zirconium	6010B	Approved
WP & DMRQA Trace Elements	55024	1000	Aluminum	6010C	Approved
WP Trace Elements	55025	1005	Antimony	6010C	Approved
WP & DMRQA Trace Elements	55024	1010	Arsenic	6010C	Approved
WP Trace Elements	55025	1015	Barium	6010C	Approved
WP Trace Elements	55025	1015	Barium	6010C	Approved
WP Trace Elements	55025	1020	Beryllium	6010C	Approved
WP Trace Elements	55025	1020	Beryllium	6010C	Approved
WP Trace Elements	55025	1025	Boron	6010C	Approved
WP & DMRQA Trace Elements	55024	1030	Cadmium	6010C	Approved
	55144	1035	Calcium	6010C	Approved
WP & DMRQA Trace Elements	55024	1040	Chromium	6010C	Approved
WP & DMRQA Trace Elements	55024	1050	Cobalt	6010C	Approved
WP & DMRQA Trace Elements	55024	1055	Copper	6010C	Approved
WP & DMRQA Trace Elements	55024	1070	Iron	6010C	Approved
WP & DMRQA Trace Elements	55024	1075	Lead	6010C	Approved
WP & DMRQA Trace Elements	55024	1090	Manganese	6010C	Approved
WP Trace Elements	55025	1100	Molybdenum	6010C	Approved
WP & DMRQA Trace Elements	55024	1105	Nickel	6010C	Approved
	55145	1125	Potassium	6010C	Approved
WP & DMRQA Trace Elements	55024	1140	Selenium	6010C	Approved
WP Trace Elements	55025	1150	Silver	6010C	Approved
WP Trace Elements	55025	1160	Strontium	6010C	Approved
WP Trace Elements	55025	1165	Thallium	6010C	Approved
WP Trace Elements	55095	1175	Tin	6010C	Approved
WP Trace Elements	55025	1180	Titanium	6010C	Approved
WP & DMRQA Trace Elements	55024	1185	Vanadium	6010C	Approved
WP & DMRQA Trace Elements	55024	1190	Zinc	6010C	Approved
NPTA			Zirconium	6010C	Approved
WP & DMRQA Trace Elements	55024	1000	Aluminum	6020	Approved
WP Trace Elements	55025	1005	Antimony	6020	Approved
WP & DMRQA Trace Elements	55024	1010	Arsenic	6020	Approved
WP Trace Elements	55025	1015	Barium	6020	Approved
WP Trace Elements	55025	1020	Beryllium	6020	Approved
WP Trace Elements	55025	1025	Boron	6020	Approved
WP & DMRQA Trace Elements	55024	1030	Cadmium	6020	Approved
	55144	1035	Calcium	6020	Approved
WP & DMRQA Trace Elements	55024	1040	Chromium	6020	Approved
WP & DMRQA Trace Elements	55024	1050	Cobalt	6020	Approved
WP & DMRQA Trace Elements	55024	1055	Copper	6020	Approved
WP & DMRQA Trace Elements	55024	1070	Iron	6020	Approved
WP & DMRQA Trace Elements	55024	1075	Lead	6020	Approved
WP & DMRQA Trace Elements	55024	1090	Manganese	6020	Approved
WP Trace Elements	55025	1100	Molybdenum	6020	Approved
WP & DMRQA Trace Elements	55024	1105	Nickel	6020	Approved
NPTA			Total Phosphorous	6020	Approved
	55145	1125	Potassium	6020	Approved
WP & DMRQA Trace Elements	55024	1140	Selenium	6020	Approved
WP Trace Elements	55025	1150	Silver	6020	Approved
WP Trace Elements	55025	1160	Strontium	6020	Approved
WP Trace Elements	55025	1165	Thallium	6020	Approved
WP Tin	55095	1175	Tin	6020	Approved
WP Trace Elements	55025	1180	Titanium	6020	Approved
WP & DMRQA Trace Elements	55024	1185	Vanadium	6020	Approved
WP & DMRQA Trace Elements	55024	1190	Zinc	6020	Approved
NPTA			Zirconium	6020	Approved
WP & DMRQA Trace Elements	55024	1000	Aluminum	6020A	Approved
WP Trace Elements	55025	1005	Antimony	6020A	Approved
WP & DMRQA Trace Elements	55024	1010	Arsenic	6020A	Approved
WP Trace Elements	55025	1015	Barium	6020A	Approved
WP Trace Elements	55025	1020	Beryllium	6020A	Approved
WP Trace Elements	55025	1025	Boron	6020A	Approved
WP & DMRQA Trace Elements	55024	1030	Cadmium	6020A	Approved
	55144	1035	Calcium	6020A	Approved
WP & DMRQA Trace Elements	55024	1040	Chromium	6020A	Approved
WP & DMRQA Trace Elements	55024	1050	Cobalt	6020A	Approved
WP & DMRQA Trace Elements	55024	1055	Copper	6020A	Approved
WP & DMRQA Trace Elements	55024	1070	Iron	6020A	Approved
WP & DMRQA Trace Elements	55024	1075	Lead	6020A	Approved
WP & DMRQA Trace Elements	55024	1090	Manganese	6020A	Approved
WP Trace Elements	55025	1100	Molybdenum	6020A	Approved
WP & DMRQA Trace Elements	55024	1105	Nickel	6020A	Approved
NPTA			Total Phosphorous	6020A	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
	55145	1125	Potassium	6020A	Approved
WP & DMRQA Trace Elements	55024	1140	Selenium	6020A	Approved
WP Trace Elements	55025	1150	Silver	6020A	Approved
WP Trace Elements	55025	1160	Strontium	6020A	Approved
WP Trace Elements	55025	1165	Thallium	6020A	Approved
	55095	1175	Tin	6020A	Approved
WP Trace Elements	55025	1180	Titanium	6020A	Approved
WP & DMRQA Trace Elements	55024	1185	Vanadium	6020A	Approved
WP & DMRQA Trace Elements	55024	1190	Zinc	6020A	Approved
NPTA			Zirconium	6020A	Approved
WP Perchlorate	55116	1895	Perchlorate	6850	Approved
WP Hexavalent Chromium	55096	1045	Chromium VI	7196A	Approved
WP Hexavalent Chromium	55096	1045	Chromium VI	7199	Approved
WP & DMRQA Trace Elements	55024	1095	Mercury	7470A	Approved
Volatiles	PEO-120-3B	5180	1,2,3-Trichloropropane	8011	Approved
Volatiles	PEO-120-3B	4570	1,2-Dibromo-3-chloropropane (DBCP)	8011	Approved
Volatiles	PEO-120-3B	4585	1,2-Dibromomethane (EDB, Ethylene dibromide)	8011	Approved
Volatiles	PEO-010	9408	Gasoline Range Organics, C6-C10	8015B	Approved
			Motor Oil	8015B	Approved
Petroleum Hydrocarbons in Water	PEO-010	99990	Total Purgeable Hydrocarbons	8015B	Approved
Petroleum Hydrocarbons in Water	PEO-011	9369	Diesel Range Organics (C10-C28)	8015B	Approved
Volatiles	PEO-010	9408	Gasoline Range Organics, C6-C10	8015C	Approved
			Motor Oil	8015C	Approved
Petroleum Hydrocarbons in Water	PEO-010	99990	Total Purgeable Hydrocarbons	8015C	Approved
Petroleum Hydrocarbons in Water	PEO-011	9369	Diesel Range Organics (C10-C28)	8015C	Approved
Volatiles	PEO-010	9408	Gasoline Range Organics, C6-C10	8015D	Approved
			Motor Oil	8015D	Approved
Petroleum Hydrocarbons in Water	PEO-010	99990	Total Purgeable Hydrocarbons	8015D	Approved
Petroleum Hydrocarbons in Water	PEO-011	9369	Diesel Range Organics (C10-C28)	8015D	Approved
WP Pesticide Amp 2	38046	7250	Chlordane	8081A	Approved
WP Organochlorine Pesticides	38122	7810	4,4';-Methoxychlor	8081A	Approved
WP Organochlorine Pesticides	38122	7355	4,4'-DDD	8081A	Approved
WP Organochlorine Pesticides	38122	7360	4,4'-DDE	8081A	Approved
WP Organochlorine Pesticides	38122	7365	4,4'-DDT	8081A	Approved
WP Organochlorine Pesticides	38122	7110	a-BHC	8081A	Approved
WP Organochlorine Pesticides	38122	7240	a-Chlordane	8081A	Approved
WP Organochlorine Pesticides	38122	7025	Aldrin	8081A	Approved
WP Organochlorine Pesticides	38122	7115	b-BHC	8081A	Approved
WP Organochlorine Pesticides	38122	7105	d-BHC	8081A	Approved
WP Organochlorine Pesticides	38122	7470	Dieldrin	8081A	Approved
WP Organochlorine Pesticides	38122	7510	Endosulfan I	8081A	Approved
WP Organochlorine Pesticides	38122	7515	Endosulfan II	8081A	Approved
WP Organochlorine Pesticides	38122	7520	Endosulfan sulfate	8081A	Approved
WP Organochlorine Pesticides	38122	7540	Endrin	8081A	Approved
WP Organochlorine Pesticides	38122	7530	Endrin aldehyde	8081A	Approved
WP Organochlorine Pesticides	38122	7535	Endrin ketone	8081A	Approved
WP Organochlorine Pesticides	38122	7120	g-BHC (Lindane)	8081A	Approved
WP Organochlorine Pesticides	38122	7245	g-Chlordane	8081A	Approved
WP Organochlorine Pesticides	38122	7685	Heptachlor	8081A	Approved
WP Organochlorine Pesticides	38122	7690	Heptachlor epoxide	8081A	Approved
			Hexachlorobenzene	8081A	Approved
WP Toxaphene	38125	8250	Toxaphene	8081A	Approved
WP Pesticide Amp 2	38046	7250	Chlordane	8081B	Approved
WP Organochlorine Pesticides	38122	7810	4,4';-Methoxychlor	8081B	Approved
WP Organochlorine Pesticides	38122	7355	4,4'-DDD	8081B	Approved
WP Organochlorine Pesticides	38122	7360	4,4'-DDE	8081B	Approved
WP Organochlorine Pesticides	38122	7365	4,4'-DDT	8081B	Approved
WP Organochlorine Pesticides	38122	7110	a-BHC	8081B	Approved
WP Organochlorine Pesticides	38122	7240	a-Chlordane	8081B	Approved
WP Organochlorine Pesticides	38122	7025	Aldrin	8081B	Approved
WP Organochlorine Pesticides	38122	7115	b-BHC	8081B	Approved
WP Organochlorine Pesticides	38122	7105	d-BHC	8081B	Approved
WP Organochlorine Pesticides	38122	7470	Dieldrin	8081B	Approved
WP Organochlorine Pesticides	38122	7510	Endosulfan I	8081B	Approved
WP Organochlorine Pesticides	38122	7515	Endosulfan II	8081B	Approved
WP Organochlorine Pesticides	38122	7520	Endosulfan sulfate	8081B	Approved
WP Organochlorine Pesticides	38122	7540	Endrin	8081B	Approved
WP Organochlorine Pesticides	38122	7530	Endrin aldehyde	8081B	Approved
WP Organochlorine Pesticides	38122	7535	Endrin ketone	8081B	Approved
WP Organochlorine Pesticides	38122	7120	g-BHC (Lindane)	8081B	Approved
WP Organochlorine Pesticides	38122	7245	g-Chlordane	8081B	Approved
WP Organochlorine Pesticides	38122	7685	Heptachlor	8081B	Approved
WP Organochlorine Pesticides	38122	7690	Heptachlor epoxide	8081B	Approved
			Hexachlorobenzene	8081B	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
WP Toxaphene	38125	8250	Toxaphene	8081B	Approved
WP PCBs in Water #2	38091	8880	Aroclor 1016	8082	Approved
WP PCBs in Water #2	38091	8885	Aroclor 1221	8082	Approved
WP PCBs in Water #2	38091	8890	Aroclor 1232	8082	Approved
WP PCBs in Water #2	38091	8895	Aroclor 1242	8082	Approved
WP PCBs in Water #2	38091	8900	Aroclor 1248	8082	Approved
WP PCBs in Water #2	38091	8905	Aroclor 1254	8082	Approved
WP PCBs in Water #2	38091	8910	Aroclor 1260	8082	Approved
WP PCBs in Transformer Oil #2	38092	8880	PCB in Oil 1016 or 1242	8082	Approved
WP PCBs in Transformer Oil #2	38092	100	PCB in Oil 1254	8082	Approved
WP PCBs in Transformer Oil #2	38092	8910	PCB in Oil 1260	8082	Approved
WP PCBs in Water #1	38094	8880	Aroclor 1016	8082	Approved
WP PCBs in Water #1	38094	8885	Aroclor 1221	8082	Approved
WP PCBs in Water #1	38094	8890	Aroclor 1232	8082	Approved
WP PCBs in Water #1	38094	8895	Aroclor 1242	8082	Approved
WP PCBs in Water #1	38094	8900	Aroclor 1248	8082	Approved
WP PCBs in Water #1	38094	8905	Aroclor 1254	8082	Approved
WP PCBs in Water #1	38094	8910	Aroclor 1260	8082	Approved
WP PCBs in Water	38095	8880	PCB in Oil 1016 or 1242	8082	Approved
WP PCBs in Water	38095	100	PCB in Oil 1254	8082	Approved
WP PCBs in Water	38095	101	PCB in Oil 1260	8082	Approved
WS PCBs in Water	38133	8880	Aroclor 1016	8082	Approved
WS PCBs in Water	38133	8885	Aroclor 1221	8082	Approved
WS PCBs in Water	38133	8890	Aroclor 1232	8082	Approved
WS PCBs in Water	38133	8895	Aroclor 1242	8082	Approved
WS PCBs in Water	38133	8900	Aroclor 1248	8082	Approved
WS PCBs in Water	38133	8905	Aroclor 1254	8082	Approved
WS PCBs in Water	38133	8910	Aroclor 1260	8082	Approved
PCBs in Water	PEO-020	8912	Aroclor 1016/1242	8082	Approved
PCBs in Water	PEO-020	8912	Aroclor 1016/1242	8082	Approved
PCBs in Water	PEO-020	8880	Aroclor-1016 (PCB-1016)	8082	Approved
PCBs in Water	PEO-020	8880	Aroclor-1016 (PCB-1016)	8082	Approved
PCBs in Water	PEO-020	8885	Aroclor-1221 (PCB-1221)	8082	Approved
PCBs in Water	PEO-020	8885	Aroclor-1221 (PCB-1221)	8082	Approved
PCBs in Water	PEO-020	8890	Aroclor-1232 (PCB-1232)	8082	Approved
PCBs in Water	PEO-020	8890	Aroclor-1232 (PCB-1232)	8082	Approved
PCBs in Water	PEO-020	8895	Aroclor-1242 (PCB-1242)	8082	Approved
PCBs in Water	PEO-020	8895	Aroclor-1242 (PCB-1242)	8082	Approved
PCBs in Water	PEO-020	8900	Aroclor-1248 (PCB-1248)	8082	Approved
PCBs in Water	PEO-020	8900	Aroclor-1248 (PCB-1248)	8082	Approved
PCBs in Water	PEO-020	8905	Aroclor-1254 (PCB-1254)	8082	Approved
PCBs in Water	PEO-020	8905	Aroclor-1254 (PCB-1254)	8082	Approved
PCBs in Water	PEO-020	8910	Aroclor-1260 (PCB-1260)	8082	Approved
PCBs in Water	PEO-020	8910	Aroclor-1260 (PCB-1260)	8082	Approved
WP PCBs in Water #2	38091	8880	Aroclor 1016	8082A	Approved
WP PCBs in Water #2	38091	8885	Aroclor 1221	8082A	Approved
WP PCBs in Water #2	38091	8890	Aroclor 1232	8082A	Approved
WP PCBs in Water #2	38091	8895	Aroclor 1242	8082A	Approved
WP PCBs in Water #2	38091	8900	Aroclor 1248	8082A	Approved
WP PCBs in Water #2	38091	8905	Aroclor 1254	8082A	Approved
WP PCBs in Water #2	38091	8910	Aroclor 1260	8082A	Approved
WP PCBs in Transformer Oil #2	38092	8880	PCB in Oil 1016 or 1242	8082A	Approved
WP PCBs in Transformer Oil #2	38092	100	PCB in Oil 1254	8082A	Approved
WP PCBs in Transformer Oil #2	38092	8910	PCB in Oil 1260	8082A	Approved
WP PCBs in Water #1	38094	8880	Aroclor 1016	8082A	Approved
WP PCBs in Water #1	38094	8885	Aroclor 1221	8082A	Approved
WP PCBs in Water #1	38094	8890	Aroclor 1232	8082A	Approved
WP PCBs in Water #1	38094	8895	Aroclor 1242	8082A	Approved
WP PCBs in Water #1	38094	8900	Aroclor 1248	8082A	Approved
WP PCBs in Water #1	38094	8905	Aroclor 1254	8082A	Approved
WP PCBs in Water #1	38094	8910	Aroclor 1260	8082A	Approved
WP PCBs in Water	38095	8880	PCB in Oil 1016 or 1242	8082A	Approved
WP PCBs in Water	38095	100	PCB in Oil 1254	8082A	Approved
WP PCBs in Water	38095	101	PCB in Oil 1260	8082A	Approved
WS PCBs in Water	38133	8880	Aroclor 1016	8082A	Approved
WS PCBs in Water	38133	8885	Aroclor 1221	8082A	Approved
WS PCBs in Water	38133	8890	Aroclor 1232	8082A	Approved
WS PCBs in Water	38133	8895	Aroclor 1242	8082A	Approved
WS PCBs in Water	38133	8900	Aroclor 1248	8082A	Approved
WS PCBs in Water	38133	8905	Aroclor 1254	8082A	Approved
WS PCBs in Water	38133	8910	Aroclor 1260	8082A	Approved
PCBs in Water	PEO-020	8912	Aroclor 1016/1242	8082A	Approved
PCBs in Water	PEO-020	8912	Aroclor 1016/1242	8082A	Approved
PCBs in Water	PEO-020	8880	Aroclor-1016 (PCB-1016)	8082A	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
PCBs in Water	PEO-020	8880	Aroclor-1016 (PCB-1016)	8082A	Approved
PCBs in Water	PEO-020	8885	Aroclor-1221 (PCB-1221)	8082A	Approved
PCBs in Water	PEO-020	8885	Aroclor-1221 (PCB-1221)	8082A	Approved
PCBs in Water	PEO-020	8890	Aroclor-1232 (PCB-1232)	8082A	Approved
PCBs in Water	PEO-020	8890	Aroclor-1232 (PCB-1232)	8082A	Approved
PCBs in Water	PEO-020	8895	Aroclor-1242 (PCB-1242)	8082A	Approved
PCBs in Water	PEO-020	8895	Aroclor-1242 (PCB-1242)	8082A	Approved
PCBs in Water	PEO-020	8900	Aroclor-1248 (PCB-1248)	8082A	Approved
PCBs in Water	PEO-020	8900	Aroclor-1248 (PCB-1248)	8082A	Approved
PCBs in Water	PEO-020	8905	Aroclor-1254 (PCB-1254)	8082A	Approved
PCBs in Water	PEO-020	8905	Aroclor-1254 (PCB-1254)	8082A	Approved
PCBs in Water	PEO-020	8910	Aroclor-1260 (PCB-1260)	8082A	Approved
PCBs in Water	PEO-020	8910	Aroclor-1260 (PCB-1260)	8082A	Approved
CWA Organophosphorous Pesticides	38135	7075	Azinphosmethyl	8141A	Approved
WP Organophosphorous Pesticides	38135	7075	Azinphosmethyl (Guthion)	8141A	Approved
CWA Organophosphorous Pesticides	38135	7300	Chlorpyrifos	8141A	Approved
WP Organophosphorous Pesticides	38135	7390	Demeton, (Mix of Isomers O:S [35%:56%])	8141A	Approved
CWA Organophosphorous Pesticides	38135	7390	Demeton, (Mix of Isomers O:S)	8141A	Approved
CWA Organophosphorous Pesticides	38135	7410	Diazinon	8141A	Approved
WP Organophosphorous Pesticides	38135	7410	Diazinon	8141A	Approved
CWA Organophosphorous Pesticides	38135	8610	Dichlorvos	8141A	Approved
CWA Organophosphorous Pesticides	38135	7475	Dimethoate	8141A	Approved
CWA Organophosphorous Pesticides	38135	8625	Disulfoton	8141A	Approved
WP Organophosphorous Pesticides	38135	8625	Disulfoton	8141A	Approved
CWA Organophosphorous Pesticides	38135	7565	Ethion	8141A	Approved
WP Organophosphorous Pesticides	38135	7565	Ethion	8141A	Approved
CWA Organophosphorous Pesticides	38135	7570	Ethoprop	8141A	Approved
CWA Organophosphorous Pesticides	38135	7770	Malathion	8141A	Approved
WP Organophosphorous Pesticides	38135	7770	Malathion	8141A	Approved
CWA Organophosphorous Pesticides	38135	7955	Parathion ethyl	8141A	Approved
CWA Organophosphorous Pesticides	38135	7825	Parathion methyl	8141A	Approved
CWA Organophosphorous Pesticides	38135	7985	Phorate	8141A	Approved
CWA Organophosphorous Pesticides	38135	8110	Ronnel	8141A	Approved
CWA Organophosphorous Pesticides	38135	8200	Stirophos	8141A	Approved
CWA Organophosphorous Pesticides	38135	7075	Azinphosmethyl	8141B	Approved
WP Organophosphorous Pesticides	38135	7075	Azinphosmethyl (Guthion)	8141B	Approved
CWA Organophosphorous Pesticides	38135	7300	Chlorpyrifos	8141B	Approved
WP Organophosphorous Pesticides	38135	7390	Demeton, (Mix of Isomers O:S [35%:56%])	8141B	Approved
CWA Organophosphorous Pesticides	38135	7390	Demeton, (Mix of Isomers O:S)	8141B	Approved
CWA Organophosphorous Pesticides	38135	7410	Diazinon	8141B	Approved
WP Organophosphorous Pesticides	38135	7410	Diazinon	8141B	Approved
CWA Organophosphorous Pesticides	38135	8610	Dichlorvos	8141B	Approved
CWA Organophosphorous Pesticides	38135	7475	Dimethoate	8141B	Approved
CWA Organophosphorous Pesticides	38135	8625	Disulfoton	8141B	Approved
WP Organophosphorous Pesticides	38135	8625	Disulfoton	8141B	Approved
CWA Organophosphorous Pesticides	38135	7565	Ethion	8141B	Approved
WP Organophosphorous Pesticides	38135	7565	Ethion	8141B	Approved
CWA Organophosphorous Pesticides	38135	7570	Ethoprop	8141B	Approved
CWA Organophosphorous Pesticides	38135	7770	Malathion	8141B	Approved
WP Organophosphorous Pesticides	38135	7770	Malathion	8141B	Approved
CWA Organophosphorous Pesticides	38135	7955	Parathion ethyl	8141B	Approved
CWA Organophosphorous Pesticides	38135	7825	Parathion methyl	8141B	Approved
CWA Organophosphorous Pesticides	38135	7985	Phorate	8141B	Approved
CWA Organophosphorous Pesticides	38135	8110	Ronnel	8141B	Approved
CWA Organophosphorous Pesticides	38135	8200	Stirophos	8141B	Approved
WP Herbicide Acid Mix #2	38136	8655	2,4,5-T	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8545	2,4-D (2,4-Dichlorophenoxyacetic acid)	8151A	Approved
WP Herbicide Acid Mix #2	38136	8560	2,4-DB	8151A	Approved
WP Herbicide Acid Mix #2	38136	8600	3,5-Dichlorobenzoic acid	8151A	Approved
WP Herbicide Acid Mix #2	38136	6500	4-Nitrophenol	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8505	Acifluorfen	8151A	Approved
WP Herbicide Acid Mix #2	38136	8530	Bentazon	8151A	Approved
WP Herbicide Acid Mix #2	38136	8540	Chloramben	8151A	Approved
WP Herbicide Acid Mix #2	38136	8550	Dacthal	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8555	Dalapon	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8595	Dicamba	8151A	Approved
WP Herbicide Acid Mix #2	38136	8605	Dichlorprop	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8620	Dinoseb (2-sec-Butyl-4,6-dinitrophenol)	8151A	Approved
NPTA			MCPA	8151A	Approved
NPTA			MCPP	8151A	Approved
WP Acrolein & Acrylonitrile	38126	6605	Pentachlorophenol	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8645	Picloram	8151A	Approved
WP Acrolein & Acrylonitrile	38126	8650	Silvex (2,4,5-TP)	8151A	Approved
Volatiles in Non-Portable Water	38083	5105	1,1,1,2-Tetrachloroethane	8260B	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
Volatiles in Non-Portable Water	38083	5160	1,1,1-Trichloroethane	8260B	Approved
Volatiles in Non-Portable Water	38083	5110	1,1,2,2-Tetrachloroethane	8260B	Approved
Volatiles in Non-Portable Water	38083	5165	1,1,2-Trichloroethane	8260B	Approved
WP Oxygenates	38157	5185	1,1,2-Trichlorotrifluoroethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4630	1,1-Dichloroethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4640	1,1-Dichloroethene	8260B	Approved
Volatiles in Non-Portable Water	38083	4670	1,1-Dichloropropene	8260B	Approved
Volatiles in Non-Portable Water	38083	5150	1,2,3-Trichlorobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	5180	1,2,3-Trichloropropane	8260B	Approved
Volatiles in Non-Portable Water	38083	5155	1,2,4-Trichlorobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	5210	1,2,4-Trimethylbenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4570	1,2-Dibromo-3-chloropropane	8260B	Approved
Volatiles in Non-Portable Water	38083	4585	1,2-Dibromoethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4610	1,2-Dichlorobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4635	1,2-Dichloroethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4655	1,2-Dichloropropane	8260B	Approved
Volatiles in Non-Portable Water	38083	5215	1,3,5-Trimethylbenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4615	1,3-Dichlorobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4660	1,3-Dichloropropane	8260B	Approved
Volatiles in Non-Portable Water	38083	4620	1,4-Dichlorobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4665	2,2-Dichloropropane	8260B	Approved
WP Ketones	38134	4410	2-Butanone	8260B	Approved
WP Ketones	38134	4410	2-Butanone	8260B	Approved
WP 2-Chloroethyl vinyl ether	38128	4500	2-Chloroethyl vinyl ether	8260B	Approved
Volatiles in Non-Portable Water	38083	4535	2-Chlorotoluene	8260B	Approved
WP Ketones	38134	4860	2-Hexanone	8260B	Approved
WP Ketones	38134	4860	2-Hexanone	8260B	Approved
Volatiles in Non-Portable Water	38083	4540	4-Chlorotoluene	8260B	Approved
Volatiles in Non-Portable Water	38083	4995	4-methyl-2-pentanone	8260B	Approved
WP Ketones	38134	4995	4-Methyl-2-pentanone	8260B	Approved
WP Ketones	38134	4995	4-Methyl-2-pentanone	8260B	Approved
WP Ketones	38134	4315	Acetone	8260B	Approved
WP Ketones	38134	4315	Acetone	8260B	Approved
WP Acrolein & Acrylonitrile	38123	0150	Acrolein	8260B	Approved
WP Acrolein & Acrylonitrile	38123	4325	Acrolein	8260B	Approved
WP Acrolein & Acrylonitrile	38123	1051	Acrolein	8260B	Approved
WP Acrolein & Acrylonitrile	38123	1051	Acrylonitrile	8260B	Approved
Volatiles in Non-Portable Water	38083	4375	Benzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4385	Bromobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4390	Bromochloromethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4395	Bromodichloromethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4400	Bromoform	8260B	Approved
Volatiles in Non-Portable Water	38083	4950	Bromomethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4450	Carbon disulphide	8260B	Approved
Volatiles in Non-Portable Water	38083	4455	Carbon tetrachloride	8260B	Approved
Volatiles in Non-Portable Water	38083	4475	Chlorobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4485	Chloroethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4505	Chloroform	8260B	Approved
Volatiles in Non-Portable Water	38083	4960	Chloromethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4645	cis-1,2-Dichloroethene	8260B	Approved
Volatiles in Non-Portable Water	38083	4680	cis-1,3-Dichloropropene	8260B	Approved
Volatiles in Non-Portable Water	38083	4575	Dibromochloromethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4595	Dibromomethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4625	Dichlorodifluoromethane	8260B	Approved
Volatiles in Non-Portable Water	38083	4765	Ethyl benzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4835	Hexachlorobutadiene	8260B	Approved
Volatiles in Non-Portable Water	38083	4840	Hexachloroethane	8260B	Approved
WP Oxygenates	38157	9375	Isopropyl ether (DIPE)	8260B	Approved
Volatiles in Non-Portable Water	38083	4900	Isopropylbenzene	8260B	Approved
NPTA			Methyl Ethyl Ketone	8260B	Approved
Volatiles in Non-Portable Water	38083	5000	Methyl tert-butyl ether (MTBE)	8260B	Approved
WP Oxygenates	38157	5000	Methyl tert-butyl ether (MTBE)	8260B	Approved
Volatiles in Non-Portable Water	38083	4975	Methylene chloride (Dichloromethane)	8260B	Approved
Volatiles in Non-Portable Water	38083	5005	Naphthalene	8260B	Approved
Volatiles in Non-Portable Water	38083	4435	n-Butyl benzene	8260B	Approved
Volatiles in Non-Portable Water	38083	5015	Nitrobenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	5090	n-Propylbenzene	8260B	Approved
WP Oxygenates	38157	5090	n-Propylbenzene	8260B	Approved
Volatiles in Non-Portable Water	38083	4440	sec-Butyl benzene	8260B	Approved
Volatiles in Non-Portable Water	38083	5100	Styrene	8260B	Approved
WP Oxygenates	38157	4370	tert-Amyl methyl ether (TAME)	8260B	Approved
WP Oxygenates	38157	4420	tert-Butyl alcohol (t-Butanol)	8260B	Approved
Volatiles in Non-Portable Water	38083	4445	tert-Butyl benzene	8260B	Approved
WP Oxygenates	38157	4770	tert-Butyl ethyl ether (ETBE)	8260B	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
Volatiles in Non-Portable Water	38083	5115	Tetrachloroethene	8260B	Approved
Volatiles in Non-Portable Water	38083	5140	Toluene	8260B	Approved
Volatiles in Non-Portable Water	38083	5260	Total Xylenes	8260B	Approved
Volatiles in Non-Portable Water	38083	4700	trans-1,2-Dichloroethene	8260B	Approved
Volatiles in Non-Portable Water	38083	4685	trans-1,3-Dichloropropene	8260B	Approved
Volatiles in Non-Portable Water	38083	5170	Trichloroethene	8260B	Approved
Volatiles in Non-Portable Water	38083	5175	Trichlorofluoromethane	8260B	Approved
Volatiles in Non-Portable Water	38083	5235	Vinyl chloride	8260B	Approved
NPTA			Cyclohexane	8260B	Approved
NPTA			Methyl Acetate	8260B	Approved
NPTA			Methylcyclohexane	8260B	Approved
NPTA			m&p Xylenes	8260B	Approved
NPTA			o-Xylene	8260B	Approved
NPTA			p-isopropyltoluene	8260B	Approved
NPTA			Vinyl Acetate	8260B	Approved
Volatiles in Non-Portable Water	38083	5105	1,1,1,2-Tetrachloroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	5160	1,1,1-Trichloroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	5110	1,1,2,2-Tetrachloroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	5165	1,1,2-Trichloroethane	8260C	Approved
WP Oxygenates	38157	5185	1,1,2-Trichlorotrifluoroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4630	1,1-Dichloroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4640	1,1-Dichloroethene	8260C	Approved
Volatiles in Non-Portable Water	38083	4670	1,1-Dichloropropene	8260C	Approved
Volatiles in Non-Portable Water	38083	5150	1,2,3-Trichlorobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	5180	1,2,3-Trichloropropane	8260C	Approved
Volatiles in Non-Portable Water	38083	5155	1,2,4-Trichlorobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	5210	1,2,4-Trimethylbenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4570	1,2-Dibromo-3-chloropropane	8260C	Approved
Volatiles in Non-Portable Water	38083	4585	1,2-Dibromoethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4610	1,2-Dichlorobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4635	1,2-Dichloroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4655	1,2-Dichloropropane	8260C	Approved
Volatiles in Non-Portable Water	38083	5215	1,3,5-Trimethylbenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4615	1,3-Dichlorobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4660	1,3-Dichloropropane	8260C	Approved
Volatiles in Non-Portable Water	38083	4620	1,4-Dichlorobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4665	2,2-Dichloropropane	8260C	Approved
WP Ketones	38134	4410	2-Butanone	8260C	Approved
WP 2-Chloroethyl vinyl ether	38128	4500	2-Chloroethyl vinyl ether	8260C	Approved
Volatiles in Non-Portable Water	38083	4535	2-Chlorotoluene	8260C	Approved
WP Ketones	38134	4860	2-Hexanone	8260C	Approved
Volatiles in Non-Portable Water	38083	4540	4-Chlorotoluene	8260C	Approved
Volatiles in Non-Portable Water	38083	4995	4-methyl-2-pentanone	8260C	Approved
WP Ketones	38134	4995	4-Methyl-2-pentanone	8260C	Approved
WP Ketones	38134	4315	Acetone	8260C	Approved
WP Acrolein & Acrylonitrile	38123	4325	Acrolein (Propenal)	8260C	Approved
WP Acrolein & Acrylonitrile	38123	1051	Acrylonitrile	8260C	Approved
Volatiles in Non-Portable Water	38083	4375	Benzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4385	Bromobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4390	Bromochloromethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4395	Bromodichloromethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4400	Bromoform	8260C	Approved
Volatiles in Non-Portable Water	38083	4950	Bromomethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4450	Carbon disulphide	8260C	Approved
Volatiles in Non-Portable Water	38083	4455	Carbon tetrachloride	8260C	Approved
Volatiles in Non-Portable Water	38083	4475	Chlorobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4485	Chloroethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4505	Chloroform	8260C	Approved
Volatiles in Non-Portable Water	38083	4960	Chloromethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4645	cis-1,2-Dichloroethene	8260C	Approved
Volatiles in Non-Portable Water	38083	4680	cis-1,3-Dichloropropene	8260C	Approved
Volatiles in Non-Portable Water	38083	4575	Dibromochloromethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4595	Dibromomethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4625	Dichlorodifluoromethane	8260C	Approved
Volatiles in Non-Portable Water	38083	4765	Ethyl benzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4835	Hexachlorobutadiene	8260C	Approved
Volatiles in Non-Portable Water	38083	4840	Hexachloroethane	8260C	Approved
WP Oxygenates	38157	9375	Isopropyl ether (DIPE)	8260C	Approved
Volatiles in Non-Portable Water	38083	4900	Isopropylbenzene	8260C	Approved
NPTA			Methyl Ethyl Ketone	8260C	Approved
Volatiles in Non-Portable Water	38083	5000	Methyl tert-butyl ether (MTBE)	8260C	Approved
WP Oxygenates	38157	5000	Methyl tert-butyl ether (MTBE)	8260C	Approved
Volatiles in Non-Portable Water	38083	4975	Methylene chloride (Dichloromethane)	8260C	Approved
Volatiles in Non-Portable Water	38083	5005	Naphthalene	8260C	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
Volatiles in Non-Portable Water	38083	4435	n-Butyl benzene	8260C	Approved
Volatiles in Non-Portable Water	38083	5015	Nitrobenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	5090	n-Propylbenzene	8260C	Approved
WP Oxygenates	38157	5090	n-Propylbenzene	8260C	Approved
Volatiles in Non-Portable Water	38083	4910	p-isopropyl tolutne	8260C	Approved
Volatiles in Non-Portable Water	38083	4440	sec-Butyl benzene	8260C	Approved
Volatiles in Non-Portable Water	38083	5100	Styrene	8260C	Approved
WP Oxygenates	38157	4370	tert-Amyl methyl ether (TAME)	8260C	Approved
WP Oxygenates	38157	4420	tert-Butyl alcohol (t-Butanol)	8260C	Approved
Volatiles in Non-Portable Water	38083	4445	tert-Butyl benzene	8260C	Approved
WP Oxygenates	38157	4770	tert-Butyl ethyl ether (ETBE)	8260C	Approved
Volatiles in Non-Portable Water	38083	5115	Tetrachloroethene	8260C	Approved
Volatiles in Non-Portable Water	38083	5140	Toluene	8260C	Approved
Volatiles in Non-Portable Water	38083	5260	Total Xylenes	8260C	Approved
Volatiles in Non-Portable Water	38083	4700	trans-1,2-Dichloroethene	8260C	Approved
Volatiles in Non-Portable Water	38083	4685	trans-1,3-Dichloropropene	8260C	Approved
Volatiles in Non-Portable Water	38083	5170	Trichloroethene	8260C	Approved
Volatiles in Non-Portable Water	38083	5175	Trichlorofluoromethane	8260C	Approved
Volatiles in Non-Portable Water	38083	5235	Vinyl chloride	8260C	Approved
NPTA			Cyclohexane	8260C	Approved
NPTA			Methyl Acetate	8260C	Approved
NPTA			Methylcyclohexane	8260C	Approved
NPTA			m&p Xylenes	8260C	Approved
NPTA			o-Xylene	8260C	Approved
NPTA			p-isopropyltoluene	8260C	Approved
NPTA			Vinyl Acetate	8260C	Approved
Base/Neutrals	PEO-121-2A	5155	1,2,4-Trichlorbenzene	8270C	Approved
Base/Neutrals	PEO-121-2A	5155	1,2,4-Trichlorobenzene	8270C	Approved
Base/Neutrals	PEO-121-2A	4610	1,2-Dichlorobenzene	8270C	Approved
Base/Neutrals	PEO-121-2A	4615	1,3-Dichlorobenzene	8270C	Approved
Base/Neutrals	PEO-121-2A	4620	1,4-Dichlorobenzene	8270C	Approved
Acid Compounds	PEO-022	6735	2,3,4,6-Tetrachlorophenol	8270C	Approved
Acid Compounds	PEO-022	6835	2,4,5-Trichlorophenol	8270C	Approved
Acid Compounds	PEO-022	6840	2,4,6-Trichlorphenol	8270C	Approved
Acid Compounds	PEO-022	6000	2,4-Dichlorophenol	8270C	Approved
Acid Compounds	PEO-022	6130	2,4-Dimethylphenol	8270C	Approved
Acid Compounds	PEO-022	6175	2,4-Dinitrophenol	8270C	Approved
Base/Neutrals	PEO-121-2A	6185	2,4-Dinitrotoluene (2,4-DNT)	8270C	Approved
Acid Compounds	PEO-022	6005	2,6-Dichlorophenol	8270C	Approved
Base/Neutrals	PEO-121-2A	6190	2,6-Dinitrotoluene (2,6-DNT)	8270C	Approved
Base/Neutrals	PEO-121-2A	5795	2-Chloronaphthalene	8270C	Approved
Acid Compounds	PEO-022	5800	2-Chlorophenol	8270C	Approved
Acid Compounds	PEO-022	6360	2-Methyl-4,6-Dinitrophenol	8270C	Approved
Base/Neutrals	PEO-121-2A	6385	2-Methylnaphthalene	8270C	Approved
Acid Compounds	PEO-022	6400	2-Methylphenol	8270C	Approved
Base/Neutrals	PEO-121-2B	6460	2-Nitroaniline	8270C	Approved
Acid Compounds	PEO-022	6490	2-Nitrophenol	8270C	Approved
Base/Neutrals	PEO-121-2A	5945	3,3'-Dichlorobenzidine	8270C	Approved
Base/Neutrals	PEO-121-2B	6465	3-Nitroaniline	8270C	Approved
Acid Compounds	PEO-022	6410	3 & 4-Methylphenol	8270C	Approved
Base/Neutrals	PEO-121-2A	5660	4-Bromophenyl phenyl ether	8270C	Approved
Acid Compounds	PEO-022	5700	4-Chloro-3-methylphenol	8270C	Approved
Base/Neutrals	PEO-121-2B	5745	4-Chloroaniline	8270C	Approved
Base/Neutrals	PEO-121-2A	5825	4-Chlorophenyl-phenylether	8270C	Approved
Base/Neutrals	PEO-121-2B	6470	4-Nitroaniline	8270C	Approved
Acid Compounds	PEO-022	6500	4-Nitrophenol	8270C	Approved
Base/Neutrals	PEO-121-1	5500	Acenaphthene	8270C	Approved
Base/Neutrals	PEO-121-1	5505	Acenaphthylene	8270C	Approved
Base/Neutrals	PEO-121-2B	5545	Aniline	8270C	Approved
Base/Neutrals	PEO-121-1	5555	Anthracene	8270C	Approved
Base/Neutrals	PEO-121-2A	5595	Benzidine	8270C	Approved
Base/Neutrals	PEO-121-1	5575	Benzo(a)anthracene	8270C	Approved
Base/Neutrals	PEO-121-1	5580	Benzo(a)pyrene	8270C	Approved
Base/Neutrals	PEO-121-1	5585	Benzo(b)fluoranthene	8270C	Approved
Base/Neutrals	PEO-121-1	5601	Benzo(b+k)fluoranthene	8270C	Approved
Base/Neutrals	PEO-121-1	5590	Benzo(g,h,i)perylene	8270C	Approved
Base/Neutrals	PEO-121-1	5600	Benzo(k)fluoranthene	8270C	Approved
Acid Compounds	PEO-022	5610	Benzoic acid	8270C	Approved
Base/Neutrals	PEO-121-2B	5630	Benzyl alcohol	8270C	Approved
Base/Neutrals	PEO-121-2A	5670	Benzyl butyl phthalate	8270C	Approved
Base/Neutrals	PEO-121-2A	5760	bis(2-Chloroethoxy) methane	8270C	Approved
Base/Neutrals	PEO-121-2A	5765	bis(2-Chloroethyl) ether	8270C	Approved
Base/Neutrals	PEO-121-2A	5780	bis(2-Chloroisopropyl) ether	8270C	Approved
Base/Neutrals	PEO-121-2A	6255	bis(2-Ethylhexyl) phthalate	8270C	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
Base/Neutrals	PEO-121-2B	7180	Caprolactam	8270C	Approved
Base/Neutrals	PEO-121-2B	5680	Carbazole	8270C	Approved
Base/Neutrals	PEO-121-1	5855	Chrysene	8270C	Approved
Base/Neutrals	PEO-121-1	5895	Dibenz(a,h) anthracene	8270C	Approved
Base/Neutrals	PEO-121-2A	5905	Dibenzofuran	8270C	Approved
Base/Neutrals	PEO-121-2A	6070	Diethyl phthalate	8270C	Approved
Base/Neutrals	PEO-121-2A	6135	Dimethyl phthalate	8270C	Approved
Base/Neutrals	PEO-121-2A	5925	Di-n-butylphthalate	8270C	Approved
Base/Neutrals	PEO-121-2A	6200	Di-n-octylphthalate	8270C	Approved
Base/Neutrals	PEO-121-1	6265	Fluoranthene	8270C	Approved
Base/Neutrals	PEO-121-1	6270	Fluorene	8270C	Approved
Base/Neutrals	PEO-121-2A	6275	Hexachlorobenzene	8270C	Approved
Base/Neutrals	PEO-121-2A	4835	Hexachlorobutadiene	8270C	Approved
Base/Neutrals	PEO-121-2A	6285	Hexachlorocyclopentadiene	8270C	Approved
Base/Neutrals	PEO-121-2A	4840	Hexachloroehane	8270C	Approved
Base/Neutrals	PEO-121-1	6315	Indeno(1,2,3-cd) pyrene	8270C	Approved
Base/Neutrals	PEO-121-2A	6320	Isophorone	8270C	Approved
Base/Neutrals	PEO-121-1	5005	Naphthalene	8270C	Approved
Base/Neutrals	PEO-121-2A	5015	Nitrobenzene	8270C	Approved
Base/Neutrals	PEO-121-2A	6530	N-nitrosodimethylamine	8270C	Approved
Base/Neutrals	PEO-121-2A	6545	N-nitrosodi-n-propylamine	8270C	Approved
Base/Neutrals	PEO-121-2A	6535	N-nitrosodiphenylamine	8270C	Approved
Acid Compounds	PEO-022	6605	Pentachlorophenol	8270C	Approved
Base/Neutrals	PEO-121-1	6615	Phenanthrene	8270C	Approved
Acid Compounds	PEO-022	6625	Phenol	8270C	Approved
Base/Neutrals	PEO-121-1	6665	Pyrene	8270C	Approved
Base/Neutrals	PEO-121-2B	5095	Pyridine	8270C	Approved
Low Level PAHs	PEO-259	5500	Acenaphthene	8270C SIM	Approved
Low Level PAHs	PEO-259	5505	Acenaphthylene	8270C SIM	Approved
Low Level PAHs	PEO-259	5555	Anthracene	8270C SIM	Approved
Low Level PAHs	PEO-259	5575	Benzo(a)anthracene	8270C SIM	Approved
Low Level PAHs	PEO-259	5580	Benzo(a)pyrene	8270C SIM	Approved
Low Level PAHs	PEO-259	5585	Benzo(b)fluoranthene	8270C SIM	Approved
Low Level PAHs	PEO-259	5590	Benzo(g,h,I)perylene	8270C SIM	Approved
Low Level PAHs	PEO-259	5600	Benzo(k)fluoranthene	8270C SIM	Approved
Low Level PAHs	PEO-259	5855	Chrysene	8270C SIM	Approved
Low Level PAHs	PEO-259	5895	Dibenzo(a,h)anthracene	8270C SIM	Approved
Low Level PAHs	PEO-259	6265	Fluoranthene	8270C SIM	Approved
Low Level PAHs	PEO-259	6270	Fluorene	8270C SIM	Approved
Low Level PAHs	PEO-259	6315	Indeno(1,2,3-cd) pyrene	8270C SIM	Approved
Low Level PAHs	PEO-259	5005	Naphthalene	8270C SIM	Approved
Low Level PAHs	PEO-259	6615	Penanthrene	8270C SIM	Approved
Low Level PAHs	PEO-259	6665	Pyrene	8270C SIM	Approved
Low Level PAHs			2-Methylnaphthalene	8270C SIM	Approved
Base/Neutrals	PEO-121-2A	5155	1,2,4-Trichlorbenzene	8270D	Approved
Base/Neutrals	PEO-121-2A	4610	1,2-Dichlorobenzene	8270D	Approved
Base/Neutrals	PEO-121-2A	4615	1,3-Dichlorobenzene	8270D	Approved
Base/Neutrals	PEO-121-2A	4620	1,4-Dichlorobenzene	8270D	Approved
Acid Compounds	PEO-022	6735	2,3,4,6-Tetrachlorophenol	8270D	Approved
Acid Compounds	PEO-022	6835	2,4,5-Trichlorophenol	8270D	Approved
Acid Compounds	PEO-022	6840	2,4,6-Trichlorphenol	8270D	Approved
Acid Compounds	PEO-022	6000	2,4-Dichlorophenol	8270D	Approved
Acid Compounds	PEO-022	6130	2,4-Dimethylphenol	8270D	Approved
Acid Compounds	PEO-022	6175	2,4-Dinitrophenol	8270D	Approved
Base/Neutrals	PEO-121-2A	6185	2,4-Dinitrotoluene (2,4-DNT)	8270D	Approved
Acid Compounds	PEO-022	6005	2,6-Dichlorophenol	8270D	Approved
Base/Neutrals	PEO-121-2A	6190	2,6-Dinitrotoluene (2,6-DNT)	8270D	Approved
Base/Neutrals	PEO-121-2A	5795	2-Chloronaphthalene	8270D	Approved
Acid Compounds	PEO-022	5800	2-Chlorophenol	8270D	Approved
Acid Compounds	PEO-022	6360	2-Methyl-4,6-Dinitrophenol	8270D	Approved
Base/Neutrals	PEO-121-2A	6385	2-Methylnaphthalene	8270D	Approved
Acid Compounds	PEO-022	6400	2-Methylphenol	8270D	Approved
Base/Neutrals	PEO-121-2B	6460	2-Nitroaniline	8270D	Approved
Acid Compounds	PEO-022	6490	2-Nitrophenol	8270D	Approved
Base/Neutrals	PEO-121-2A	5945	3,3'-Dichlorobenzidine	8270D	Approved
Base/Neutrals	PEO-121-2B	6465	3-Nitroaniline	8270D	Approved
Acid Compounds	PEO-022	6410	4 & 4-Methylphenol	8270D	Approved
Base/Neutrals	PEO-121-2A	5660	4-Bromophenyl phenyl ether	8270D	Approved
Acid Compounds	PEO-022	5700	4-Chloro-3-methylphenol	8270D	Approved
Base/Neutrals	PEO-121-2B	5745	4-Chloroaniline	8270D	Approved
Base/Neutrals	PEO-121-2A	5825	4-Chlorophenyl-phenylether	8270D	Approved
Base/Neutrals	PEO-121-2B	6470	4-Nitroaniline	8270D	Approved
Acid Compounds	PEO-022	6500	4-Nitrophenol	8270D	Approved
Base/Neutrals	PEO-121-2B	5545	Aniline	8270D	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
Base/Neutrals	PEO-121-2A	5595	Benzidine	8270D	Approved
Acid Compounds	PEO-022	5610	Benzoic acid	8270D	Approved
Base/Neutrals	PEO-121-2B	5630	Benzyl alcohol	8270D	Approved
Base/Neutrals	PEO-121-2A	5670	Benzyl butyl phthalate	8270D	Approved
Base/Neutrals	PEO-121-2A	5760	bis(2-Chloroethoxy) methane	8270D	Approved
Base/Neutrals	PEO-121-2A	5765	bis(2-Chloroethyl) ether	8270D	Approved
Base/Neutrals	PEO-121-2A	5780	bis(2-Chloroisopropyl) ether	8270D	Approved
Base/Neutrals	PEO-121-2A	6255	bis(2-Ethylhexyl) phthalate	8270D	Approved
Base/Neutrals	PEO-121-2B	7180	Caprolactam	8270D	Approved
Base/Neutrals	PEO-121-2B	5680	Carbazole	8270D	Approved
Base/Neutrals	PEO-121-2A	5905	Dibenzofuran	8270D	Approved
Base/Neutrals	PEO-121-2A	6070	Diethyl phthalate	8270D	Approved
Base/Neutrals	PEO-121-2A	6135	Dimethyl phthalate	8270D	Approved
Base/Neutrals	PEO-121-2A	5925	Di-n-butylphthalate	8270D	Approved
Base/Neutrals	PEO-121-2A	6200	Di-n-octylphthalate	8270D	Approved
Base/Neutrals	PEO-121-2A	6275	Hexachlorobenzene	8270D	Approved
Base/Neutrals	PEO-121-2A	4835	Hexachlorobutadiene	8270D	Approved
Base/Neutrals	PEO-121-2A	6285	Hexachlorocyclopentadiene	8270D	Approved
Base/Neutrals	PEO-121-2A	4840	Hexachloroehane	8270D	Approved
Base/Neutrals	PEO-121-2A	6320	Isophorone	8270D	Approved
Base/Neutrals	PEO-121-2A	5015	Nitrobenzene	8270D	Approved
Base/Neutrals	PEO-121-2A	6530	N-nitrosodimethylamine	8270D	Approved
Base/Neutrals	PEO-121-2A	6545	N-nitrosodi-n-propylamine	8270D	Approved
Base/Neutrals	PEO-121-2A	6535	N-nitrosodiphenylamine	8270D	Approved
Acid Compounds	PEO-022	6605	Pentachlorophenol	8270D	Approved
Acid Compounds	PEO-022	6625	Phenol	8270D	Approved
Base/Neutrals	PEO-121-2B	5095	Pyridine	8270D	Approved
Low Level PAHs	PEO-259	5500	Acenaphthene	8270D SIM	Approved
Low Level PAHs	PEO-259	5505	Acenaphthylene	8270D SIM	Approved
Low Level PAHs	PEO-259	5555	Anthracene	8270D SIM	Approved
Low Level PAHs	PEO-259	5575	Benzo(a)anthracene	8270D SIM	Approved
Low Level PAHs	PEO-259	5580	Benzo(a)pyrene	8270D SIM	Approved
Low Level PAHs	PEO-259	5585	Benzo(b)fluoranthene	8270D SIM	Approved
Low Level PAHs	PEO-259	5590	Benzo(g,h,I)perylene	8270D SIM	Approved
Low Level PAHs	PEO-259	5600	Benzo(k)fluoranthene	8270D SIM	Approved
Low Level PAHs	PEO-259	5855	Chrysene	8270D SIM	Approved
Low Level PAHs	PEO-259	5895	Dibenzo(a,h)anthracene	8270D SIM	Approved
Low Level PAHs	PEO-259	6265	Fluoranthene	8270D SIM	Approved
Low Level PAHs	PEO-259	6270	Fluorene	8270D SIM	Approved
Low Level PAHs	PEO-259	6315	Indeno(1,2,3-cd) pyrene	8270D SIM	Approved
Low Level PAHs	PEO-259	5005	Naphthalene	8270D SIM	Approved
Low Level PAHs	PEO-259	6615	Penanthrene	8270D SIM	Approved
Low Level PAHs	PEO-259	6665	Pyrene	8270D SIM	Approved
			2-Methylnaphthalene	8270D SIM	Approved
2,3,7,8-Tetrachlorodibenzo-p-dioxin	38186	9618	2,3,7,8-TCDD	8290	Approved
Dioxin	PEO-258	9519	1,2,3,4,6,7,8,9-OCDD	8290	Approved
Dioxin	PEO-258	9516	1,2,3,4,6,7,8,9-OCDF	8290	Approved
Dioxin	PEO-258	9426	1,2,3,4,6,7,8-Hpcdd	8290	Approved
Dioxin	PEO-258	9420	1,2,3,4,6,7,8-Hpcdf	8290	Approved
Dioxin	PEO-258	9423	1,2,3,4,7,8,9-Hpcdf	8290	Approved
Dioxin	PEO-258	9453	1,2,3,4,7,8-Hxcdd	8290	Approved
Dioxin	PEO-258	9471	1,2,3,4,7,8-Hxcdf	8290	Approved
Dioxin	PEO-258	9456	1,2,3,6,7,8-Hxcdd	8290	Approved
Dioxin	PEO-258	9474	1,2,3,6,7,8-Hxcdf	8290	Approved
Dioxin	PEO-258	9459	1,2,3,7,8,9-Hxcdd	8290	Approved
Dioxin	PEO-258	9477	1,2,3,7,8,9-Hxcdf	8290	Approved
Dioxin	PEO-258	9540	1,2,3,7,8-Pecdd	8290	Approved
Dioxin	PEO-258	9543	1,2,3,7,8-Pecdf	8290	Approved
Dioxin	PEO-258	9480	2,3,4,6,7,8-Hxcdf	8290	Approved
Dioxin	PEO-258	9549	2,3,4,7,8-Pecdf	8290	Approved
Dioxin	PEO-258	9606	2,3,7,8-TCDD	8290	Approved
Dioxin	PEO-258	9612	2,3,7,8-TCDF	8290	Approved
Dioxin	PEO-258	9438	Hpcdd, total	8290	Approved
Dioxin	PEO-258	9444	Hpcdf, total	8290	Approved
Dioxin	PEO-258	9468	Hxcdd, total	8290	Approved
Dioxin	PEO-258	9483	Hxcdf, total	8290	Approved
Dioxin	PEO-258	9556	PCDD + PCDF, total	8290	Approved
Dioxin	PEO-258	9991	PCDD, total	8290	Approved
Dioxin	PEO-258	9993	PCDF, total	8290	Approved
Dioxin	PEO-258	9555	Pecdd, total	8290	Approved
Dioxin	PEO-258	9552	Pecdf, total	8290	Approved
Dioxin	PEO-258	9609	TCDD, total	8290	Approved
Dioxin	PEO-258	9615	TCDF, total	8290	Approved
WP Carbamates	38156	7710	3-Hydroxycarbofuran	8321A	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT results
WP Carbamates	38156	7010	Aldicarb	8321A	Approved
WP Carbamates	38156	7015	Aldicarb sulfone	8321A	Approved
WP Carbamates	38156	7020	Aldicarb sulfoxide	8321A	Approved
NPTA			Barban	8321A	Approved
NPTA			Bromacil	8321A	Approved
WP Carbamates	38156	7195	Carbaryl	8321A	Approved
WP Carbamates	38156	7205	Carbofuran	8321A	Approved
NPTA			Chloroxuron	8321A	Approved
WP Carbamates	38156	7505	Diuron	8321A	Approved
NPTA			Linuron	8321A	Approved
WP Carbamates	38156	7800	Methiocarb	8321A	Approved
WP Carbamates	38156	7805	Methomyl	8321A	Approved
WP Carbamates	38156	7940	Oxamyl	8321A	Approved
WP Carbamates	38156	8075	Propham	8321A	Approved
WP Carbamates	38156	8080	Propoxur (Baygon)	8321A	Approved
CWA Nitroaromatics in Water	38172	6885	1,3,5-Trinitrobenzene	8330A	Approved
CWA Nitroaromatics in Water	38172	6160	1,3-Dinitrobenzene	8330A	Approved
CWA Nitroaromatics in Water	38172	9651	2,4,6-Trinitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	6185	2,4-Dinitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	6190	2,6-Dinitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	9303	2-Amino-4,6-dinitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	9507	2-Nitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	9510	3-Nitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	9306	4-Amino-2,6-dinitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	9513	4-Nitrotoluene	8330A	Approved
CWA Nitroaromatics in Water	38172	9522	HMX	8330A	Approved
CWA Nitroaromatics in Water	38172	5015	Nitrobenzene	8330A	Approved
NPTA			Nitroglycerin	8330A	Approved
NPTA			PETN	8330A	Approved
NPTA			PGDN	8330A	Approved
NPTA			Picric Acid	8330A	Approved
CWA Nitroaromatics in Water	38172	9432	RDX	8330A	Approved
CWA Nitroaromatics in Water	38172	6415	Tetryl	8330A	Approved
CWA Nitroaromatics in Water	38172	6885	1,3,5-Trinitrobenzene	8330B	Approved
CWA Nitroaromatics in Water	38172	6160	1,3-Dinitrobenzene	8330B	Approved
CWA Nitroaromatics in Water	38172	9651	2,4,6-Trinitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	6185	2,4-Dinitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	6190	2,6-Dinitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	9303	2-Amino-4,6-dinitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	9507	2-Nitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	9510	3-Nitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	9306	4-Amino-2,6-dinitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	9513	4-Nitrotoluene	8330B	Approved
CWA Nitroaromatics in Water	38172	9522	HMX	8330B	Approved
CWA Nitroaromatics in Water	38172	5015	Nitrobenzene	8330B	Approved
NPTA			Nitroglycerin	8330B	Approved
NPTA			PGDN	8330B	Approved
NPTA			Picric Acid	8330B	Approved
CWA Nitroaromatics in Water	38172	9432	RDX	8330B	Approved
CWA Nitroaromatics in Water	38172	6415	Tetryl	8330B	Approved
Low Level Nit/Nit	PEO-251	6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	8330B	Approved
Low Level Nit/Nit	PEO-251	6160	1,3-Dinitrobenzene (1,3-DNB)	8330B	Approved
Low Level Nit/Nit	PEO-251	9651	2,4,6-Trinitrotoluene (2,4,6-TNT)	8330B	Approved
Low Level Nit/Nit	PEO-251	6185	2,4-Dinitrotoluene (2,4-DNT)	8330B	Approved
Low Level Nit/Nit	PEO-251	6190	2,6-Dinitrotoluene (2,6-DNT)	8330B	Approved
Low Level Nit/Nit	PEO-251	9303	2-Amino-4,6-dinitrotoluene (2am-dnt)	8330B	Approved
Low Level Nit/Nit	PEO-251	9507	2-Nitrotoluene	8330B	Approved
Low Level Nit/Nit	PEO-251	9510	3-Nitrotoluene	8330B	Approved
Low Level Nit/Nit	PEO-251	9306	4-Amino-2,6-dinitrotoluene (4am-dnt)	8330B	Approved
Low Level Nit/Nit	PEO-251	9513	4-Nitrotoluene	8330B	Approved
Low Level Nit/Nit	PEO-251	9522	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	8330B	Approved
Low Level Nit/Nit	PEO-251	5015	Nitrobenzene	8330B	Approved
Low Level Nit/Nit	PEO-251	6485	Nitroglycerin	8330B	Approved
Low Level Nit/Nit	PEO-251	9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	8330B	Approved
Low Level Nit/Nit	PEO-251	6415	Tetryl (Methyl-2,4,6-trinitrophenylnitramine)	8330B	Approved
Low Level Nit/Nit	PEO-252	9558	PETN	8330B	Approved
WP Cyanide, Total & Amenable	55132	1645	Total Cyanide	9010B	Approved
WP Cyanide, Total & Amenable	55132	1645	Total Cyanide	9010C & 9014	Approved
WP pH @ 25C	55061	1900	pH	9040B	Approved
WP pH @ 25C	55061	1900	pH	9040C	Approved
WP & DMRQA Nutrients	55035	1810	Nitrate as N	9056	Approved
WP & DMRQA Nutrients	55035	1870	Orthophosphate as P	9056	Approved
WP Nitrate & Nitrite	55130	1810	Nitrate as N	9056	Approved
WP Nitrate & Nitrite	55130	1820	Nitrite + Nitrate as N	9056	Approved

Accredited Analytes/Methods

WP Proficiency Testing Summary

Lab Name :	**APPL, Inc.**				
City/State :	**Clovis, CA**				
PartName	**PartNumber**	**NELACCode**	**AnalyteName**	**EPA Method**	**PT results**
WP Nitrate & Nitrite	55130	1840	Nitrite as N	9056	Approved
SWA Anions	55131	1540	Bromide	9056	Approved
WP Minerals #1	55144	1575	Chloride	9056	Approved
WP Minerals #2	55145	1730	Fluoride	9056	Approved
WP Minerals #2	55145	2000	Sulfate	9056	Approved
WP & DMRQA Nutrients	55035	1810	Nitrate as N	9056A	Approved
WP & DMRQA Nutrients	55035	1870	Orthophosphate as P	9056A	Approved
WP Nitrate & Nitrite	55130	1810	Nitrate as N	9056A	Approved
WP Nitrate & Nitrite	55130	1820	Nitrite + Nitrate as N	9056A	Approved
WP Nitrate & Nitrite	55130	1840	Nitrite as N	9056A	Approved
SWA Anions	55131	1540	Bromide	9056A	Approved
WP Minerals #1	55144	1575	Chloride	9056A	Approved
WP Minerals #2	55145	1730	Fluoride	9056A	Approved
WP Minerals #2	55145	2000	Sulfate	9056A	Approved
WP & DMRQA Demands	55055	2040	Total Organic Carbon	9060	Approved
CWA UV 254 Absorbance/DOC	55088	1710	Dissolved Organic Carbon	9060	Approved
WP & DMRQA Demands	55055	2040	Total Organic Carbon	9060A	Approved
CWA UV 254 Absorbance/DOC	55088	1710	Dissolved Organic Carbon	9060A	Approved
~~Fluoride~~	~~4420~~	~~1730~~	~~Fluoride~~	~~9214~~	Approved
WP Minerals #2	55145	1505	Total Alkalinity (CaCO3)	SM 2320B	Approved
Minerals	4050	1610	Conductivity	SM 2510B	Approved
WP Conductance @ 25C	55026	1610	Specific Conductance	SM 2510B	Approved
Solids (Total Solids, TSS & TDS)	55085	1955	Total Dissolved Solids (TDS)	SM 2540C	Approved
WP Minerals #1	55144	1955	Total Dissolved Solids @ 180C	SM 2540C	Approved
Sulphide	55042	2005	Sulphide	SM 4500-S2F	Approved
Minerals	PEI-257	2005	Sulfide	SM 4500-S2F	Approved
WP & DMRQA Demands	55055	2040	Total Organic Carbon	SM 5310B	Approved
CWA UV 254 Absorbance/DOC	55088	1710	Dissolved Organic Carbon	SM 5310B	Approved
Miscellaneous Analytes	PEI-029	1860	Oil & Grease	SM 5520B	Approved
Total Petroleum Hydrocarbons (TPH) in Water	642	1935	TPH (Gravimetric)	SM 5520BF	Approved
WP MBAS	55083	2025	MBAS	SM 5540C	Approved
MBAS	55106	2025	MBAS	SM 5540C	Approved
NPTA			Ethane, Ethene, Methane	RSK175	Approved
Solids	4030	1960	Total Suspended Solids	SM 2540D	Approved
Solids (Total Solids, TSS & TDS)	55085	1960	Non-Filterable Residue (TSS)	SM 2540D	Approved

Accredited Analytes/Methods

WS Proficiency Testing Summary

Lab Name :	**APPL, Inc.**				
City/State :	**Clovis, CA**				
PartName	**PartNumber**	**NELACCode**	**AnalyteName**	**EPA Method**	**PT Results**
WS Minerals Mix #2	55123	1955	Total Filterable Residue	160.1	Approved
SDWA Solids (Total Solids, TSS & TDS)	55161	1955	Total Dissolved Solids	160.1	Approved
WS Chromium VI	55112	1045	Chromium VI	218.6	Approved
WS Inorganic Disinfection By-Products	55010	1540	Bromide	300.0	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1730	Fluoride	300.0	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1820	Nitrate and Nitrite as N	300.0	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1810	Nitrate as N	300.0	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1840	Nitrite as N	300.0	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1870	Orthophosphate as P	300.0	Approved
WS Sulphate/TOC	55070	2000	Sulfate	300.0	Approved
WS Minerals Mix #1	55122	1575	Chloride	300.0	Approved
WS Perchlorate	55099	1895	Perchlorate	314.0	Approved
SDWA Nutrients	55165	1515	Ammonia as N	350.1	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1820	Nitrate and Nitrite as N	353.2	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1810	Nitrate as N	353.2	Approved
WS NO3-, NO2-, F, PO4-3, and NO3- & NO2- as N	55011	1840	Nitrite as N	353.2	Approved
WS Perchlorate	55099	1895	Perchlorate	6850	Approved
WS pH @ 25C	55016	1900	pH @ 25	9040C	Approved
WS Minerals Mix #1	55122	1505	Alkalinity	SM 2320B	Approved
WS Minerals Mix #2	55123	1955	Total Filterable Residue	SM 2540C	Approved
SDWA Solids (Total Solids, TSS, & TDS)	55161	1955	Total Dissolved Solids	SM 2540C	Approved
WS Sulphate/TOC	55070	2040	TOC	SM 5310B	Approved
WS UV 254 Absorbance/DOC	55098	1710	Dissolved Organic Carbon (DOC)	SM 5310B	Approved
WS MBAS	55106	2025	MBAS	SM 5540C	Approved
Solids	5150	1960	Total Suspended Solids	SM 2540D	Approved
SDWA Solids (Total Solids, TSS, & TDS)	55161	1960	Non-Filterable Residue (TSS)	SM 2540D	Approved
Trace Metals	5070	1095	Mercury	EPA 245.1	Approved
WS Trace Elements Amp1	55012	1095	Mercury	EPA 245.1	Approved

Accredited Analytes/Methods

UST: Water Proficiency Testing Summary

Lab Name :	**APPL, Inc.**				
City/State :	**Clovis, CA**				
PartName	**PartNumber**	**NELACCode**	**AnalyteName**	**EPA Method**	**PT Results**
Petroleum Hydrocarbons in Water	PEO-010	102	Gasoline Range Organics, C6-C10	EPA 8015B	Approved
Petroleum Hydrocarbons in Water	PEO-010	9408	Gasoline Range Organics, C6-C10	EPA 8015C	Approved
Petroleum Hydrocarbons in Water	PEO-010	9408	Gasoline Range Organics, C6-C10	EPA 8015D	Approved
Petroleum Hydrocarbons in Wastewater	PEO-011	9369	Diesel Range Organics (DRO)	EPA 8015B	Approved
Petroleum Hydrocarbons in Wastewater	PEO-011	9369	Diesel range organics, C10-C28	EPA 8015B	Approved
GRO/BTEX in Water	PEO-114AK	4375	Benzene	EPA 8260B	Approved
GRO/BTEX in Water	PEO-114AK	4765	Ethylbenzene	EPA 8260B	Approved
GRO/BTEX in Water	PEO-114AK	5240	m+p-Xylene	EPA 8260B	Approved
GRO/BTEX in Water	PEO-114AK	5000	MTBE	EPA 8260B	Approved
GRO/BTEX in Water	PEO-114AK	5250	o-Xylene	EPA 8260B	Approved
GRO/BTEX in Water	PEO-114AK	5140	Toluene	EPA 8260B	Approved
GRO/BTEX in Water	PEO-114AK	5260	Xylene, total	EPA 8260B	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
PCB Congeners in Soil	SPE-068	9070	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	1668A	Approved
PCB Congeners in Soil	SPE-068	9025	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	1668A	Approved
PCB Congeners in Soil	SPE-068	9040	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	1668A	Approved
PCB Congeners in Soil	SPE-068	8980	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	1668A	Approved
PCB Congeners in Soil	SPE-068	8955	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	1668A	Approved
PCB Congeners in Soil	SPE-068	9085	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	1668A	Approved
PCB Congeners in Soil	SPE-068	9050	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	1668A	Approved
PCB Congeners in Soil	SPE-068	9045	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	1668A	Approved
PCB Congeners in Soil	SPE-068	8985	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	1668A	Approved
PCB Congeners in Soil	SPE-068	9055	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	1668A	Approved
PCB Congeners in Soil	SPE-068	9005	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	1668A	Approved
PCB Congeners in Soil	SPE-068	8995	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	1668A	Approved
PCB Congeners in Soil	SPE-068	9000	2,3',4,4',5'-Pentachlorobiphenyl (PCB 123)	1668A	Approved
PCB Congeners in Soil	SPE-068	8936	2,4,4'-Trichlorobiphenyl (PCB 28)	1668A	Approved
PCB Congeners in Soil	SPE-068	9060	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	1668A	Approved
PCB Congeners in Soil	SPE-068	9015	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	1668A	Approved
PCB Congeners in Soil	SPE-068	8965	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	1668A	Approved
PCB Congeners in Soil	SPE-068	8970	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	1668A	Approved
PCB Congeners in Soil	SPE-068	9025	PCB (129)+(138)+(163)	1668A	Approved
PCB Congeners in Soil	SPE-068	9040	PCB (153)+(168)	1668A	Approved
PCB Congeners in Soil	SPE-068	9046	PCB (156)+(157)	1668A	Approved
PCB Congeners in Soil	SPE-068	9070	PCB (180)+(193)	1668A	Approved
PCB Congeners in Soil	SPE-068	8936	PCB (20)+(28)	1668A	Approved
PCB Congeners in Soil	SPE-068	8980	PCB (90)+(101)+(113)	1668A	Approved
PCB Congeners in Soil	SPE-068	8870	PCBs, total	1668A	Approved
RCRA Anions	55141	1540	Bromide (Br)	300.0	Approved
RCRA Anions	55141	1575	Chloride (Cl)	300.0	Approved
RCRA Anions	55141	1730	Fluoride (F)	300.0	Approved
RCRA Anions	55141	1810	Nitrate as N (NO3- as N)	300.0	Approved
RCRA Anions	55141	1870	Phosphate as P (PO43- as P)	300.0	Approved
RCRA Anions	55141	2000	Sulfate (SO42-)	300.0	Approved
RCRA Hexavalent Chromium	55104	1045	Chromium VI	3060A	Approved
RCRA Perchlorate	55143	1895	Perchlorate	314.0	Approved
RCRA Nutrients	55142	1515	Ammonia as N	350.1	Approved
RCRA Nutrients	55142	1795	Total Kjeldhal Nitrogen	351.2	Approved
RCRA Anions	55141	1810	Nitrate as N (NO3 as N)	353.2	Approved
RCRA Metals in Soil #2	55103	1000	Aluminum	6010B	Approved
RCRA Metals in Soil #1	55102	1005	Antimony	6010B	Approved
TCLP Metals	SPE-005	1005	Antimony, Sb	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1005	Antimony, Sb	6010B	Approved
RCRA Metals in Soil #1	55102	1010	Arsenic	6010B	Approved
TCLP Metals	SPE-005	1010	Arsenic, As	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1010	Arsenic, As	6010B	Approved
RCRA Metals in Soil #1	55102	1015	Barium	6010B	Approved
TCLP Metals	SPE-005	1015	Barium, Ba	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1015	Barium, Ba	6010B	Approved
RCRA Metals in Soil #1	55102	1020	Beryllium	6010B	Approved
TCLP Metals	SPE-005	1020	Beryllium, Be	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1020	Beryllium, Be	6010B	Approved
RCRA Metals in Soil #1	55102	1025	Boron	6010B	Approved
RCRA Metals in Soil #1	55102	1030	Cadmium	6010B	Approved
TCLP Metals	SPE-005	1030	Cadmium, Cd	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1030	Cadmium, Cd	6010B	Approved
RCRA Metals in Soil #2	55103	1035	Calcium	6010B	Approved
RCRA Metals in Soil #1	55102	1040	Chromium	6010B	Approved
TCLP Metals	SPE-005	1040	Chromium, Cr (total)	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1040	Chromium, Cr (total)	6010B	Approved
RCRA Metals in Soil #1	55102	1050	Cobalt	6010B	Approved
TCLP Metals	SPE-005	1050	Cobalt, Co	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1050	Cobalt, Co	6010B	Approved
RCRA Metals in Soil #1	55102	1055	Copper	6010B	Approved
TCLP Metals	SPE-005	1055	Copper, Cu	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1055	Copper, Cu	6010B	Approved
RCRA Metals in Soil #2	55103	1070	Iron	6010B	Approved
RCRA Metals in Soil #1	55102	1075	Lead	6010B	Approved
TCLP Metals	SPE-005	1075	Lead, Pb	6010B	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
TCLP Metals in Soil - CA WET	SPE-006	1075	Lead, Pb	6010B	Approved
RCRA Metals in Soil #2	55103	1085	Magnesium	6010B	Approved
RCRA Metals in Soil #1	55102	1090	Manganese	6010B	Approved
RCRA Metals in Soil #1	55102	1100	Molybdenum	6010B	Approved
TCLP Metals	SPE-005	1100	Molybdenum, Mo	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1100	Molybdenum, Mo	6010B	Approved
RCRA Metals in Soil #1	55102	1105	Nickel	6010B	Approved
TCLP Metals	SPE-005	1105	Nickel, Ni	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1105	Nickel, Ni	6010B	Approved
RCRA Metals in Soil #2	55103	1125	Potassium	6010B	Approved
RCRA Metals in Soil #1	55102	1140	Selenium	6010B	Approved
TCLP Metals	SPE-005	1140	Selenium, Se	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1140	Selenium, Se	6010B	Approved
RCRA Metals in Soil #1	55102	1150	Silver	6010B	Approved
TCLP Metals	SPE-005	1150	Silver, Ag	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1150	Silver, Ag	6010B	Approved
RCRA Metals in Soil #2	55103	1155	Sodium	6010B	Approved
RCRA Metals in Soil #1	55102	1160	Strontium	6010B	Approved
RCRA Metals in Soil #1	55102	1165	Thallium	6010B	Approved
TCLP Metals	SPE-005	1165	Thallium, Tl	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1165	Thallium, Tl	6010B	Approved
RCRA Metals in Soil #1	55102	1175	Tin	6010B	Approved
RCRA Metals in Soil #1	55102	1180	Titanium	6010B	Approved
RCRA Nutrients	55142	1910	Total Phosphorus	6010B	Approved
RCRA Metals in Soil #1	55102	1185	Vanadium	6010B	Approved
TCLP Metals	SPE-005	1185	Vanadium, V	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1185	Vanadium, V	6010B	Approved
RCRA Metals in Soil #1	55102	1190	Zinc	6010B	Approved
TCLP Metals	SPE-005	1190	Zinc, Zn	6010B	Approved
TCLP Metals in Soil - CA WET	SPE-006	1190	Zinc, Zn	6010B	Approved
RCRA Metals in Soil #2	55103	1000	Aluminum	6010C	Approved
RCRA Metals in Soil #1	55102	1005	Antimony	6010C	Approved
RCRA Metals in Soil #1	55102	1010	Arsenic	6010C	Approved
RCRA Metals in Soil #1	55102	1015	Barium	6010C	Approved
RCRA Metals in Soil #1	55102	1020	Beryllium	6010C	Approved
RCRA Metals in Soil #1	55102	1025	Boron	6010C	Approved
RCRA Metals in Soil #1	55102	1030	Cadmium	6010C	Approved
RCRA Metals in Soil #2	55103	1035	Calcium	6010C	Approved
RCRA Metals in Soil #1	55102	1040	Chromium	6010C	Approved
RCRA Metals in Soil #1	55102	1050	Cobalt	6010C	Approved
RCRA Metals in Soil #1	55102	1055	Copper	6010C	Approved
RCRA Metals in Soil #2	55103	1070	Iron	6010C	Approved
RCRA Metals in Soil #1	55102	1075	Lead	6010C	Approved
RCRA Metals in Soil #2	55103	1085	Magnesium	6010C	Approved
RCRA Metals in Soil #1	55102	1090	Manganese	6010C	Approved
RCRA Metals in Soil #1	55102	1100	Molybdenum	6010C	Approved
RCRA Metals in Soil #1	55102	1105	Nickel	6010C	Approved
RCRA Metals in Soil #2	55103	1125	Potassium	6010C	Approved
RCRA Metals in Soil #1	55102	1140	Selenium	6010C	Approved
RCRA Metals in Soil #1	55102	1150	Silver	6010C	Approved
RCRA Metals in Soil #2	55103	1155	Sodium	6010C	Approved
RCRA Metals in Soil #1	55102	1160	Strontium	6010C	Approved
RCRA Metals in Soil #1	55102	1165	Thallium	6010C	Approved
RCRA Metals in Soil #1	55102	1175	Tin	6010C	Approved
RCRA Metals in Soil #1	55102	1180	Titanium	6010C	Approved
			Total Phosphorus	6010C	Approved
RCRA Metals in Soil #1	55102	1185	Vanadium	6010C	Approved
RCRA Metals in Soil #1	55102	1190	Zinc	6010C	Approved
NPTA			Zirconium	6010C	Approved
RCRA Metals in Soil #2	55103	1000	Aluminum	6020	Approved
RCRA Metals in Soil #1	55102	1005	Antimony	6020	Approved
RCRA Metals in Soil #1	55102	1010	Arsenic	6020	Approved
RCRA Metals in Soil #1	55102	1015	Barium	6020	Approved
RCRA Metals in Soil #1	55102	1020	Beryllium	6020	Approved
RCRA Metals in Soil #1	55102	1025	Boron	6020	Approved
RCRA Metals in Soil #1	55102	1030	Cadmium	6020	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
RCRA Metals in Soil #2	55103	1035	Calcium	6020	Approved
RCRA Metals in Soil #1	55102	1040	Chromium	6020	Approved
RCRA Metals in Soil #1	55102	1050	Cobalt	6020	Approved
RCRA Metals in Soil #1	55102	1055	Copper	6020	Approved
RCRA Metals in Soil #2	55103	1070	Iron	6020	Approved
RCRA Metals in Soil #1	55102	1075	Lead	6020	Approved
RCRA Metals in Soil #2	55103	1085	Magnesium	6020	Approved
RCRA Metals in Soil #1	55102	1090	Manganese	6020	Approved
RCRA Metals in Soil #1	55102	1100	Molybdenum	6020	Approved
RCRA Metals in Soil #1	55102	1105	Nickel	6020	Approved
RCRA Metals in Soil #2	55103	1125	Potassium	6020	Approved
RCRA Metals in Soil #1	55102	1140	Selenium	6020	Approved
RCRA Metals in Soil #1	55102	1150	Silver	6020	Approved
RCRA Metals in Soil #2	55103	1155	Sodium	6020	Approved
RCRA Metals in Soil #1	55102	1160	Strontium	6020	Approved
RCRA Metals in Soil #1	55102	1165	Thallium	6020	Approved
RCRA Metals in Soil #1	55102	1175	Tin	6020	Approved
RCRA Metals in Soil #1	55102	1180	Titanium	6020	Approved
RCRA Metals in Soil #1	55102	1185	Vanadium	6020	Approved
RCRA Metals in Soil #1	55102	1190	Zinc	6020	Approved
NPTA			Zirconium	6020	Approved
RCRA Metals in Soil #2	55103	1000	Aluminum	6020A	Approved
RCRA Metals in Soil #1	55102	1005	Antimony	6020A	Approved
RCRA Metals in Soil #1	55102	1010	Arsenic	6020A	Approved
RCRA Metals in Soil #1	55102	1015	Barium	6020A	Approved
RCRA Metals in Soil #1	55102	1020	Beryllium	6020A	Approved
RCRA Metals in Soil #1	55102	1025	Boron	6020A	Approved
RCRA Metals in Soil #1	55102	1030	Cadmium	6020A	Approved
RCRA Metals in Soil #2	55103	1035	Calcium	6020A	Approved
RCRA Metals in Soil #1	55102	1040	Chromium	6020A	Approved
RCRA Metals in Soil #1	55102	1050	Cobalt	6020A	Approved
RCRA Metals in Soil #1	55102	1055	Copper	6020A	Approved
RCRA Metals in Soil #2	55103	1070	Iron	6020A	Approved
RCRA Metals in Soil #1	55102	1075	Lead	6020A	Approved
RCRA Metals in Soil #2	55103	1085	Magnesium	6020A	Approved
RCRA Metals in Soil #1	55102	1090	Manganese	6020A	Approved
RCRA Metals in Soil #1	55102	1100	Molybdenum	6020A	Approved
RCRA Metals in Soil #1	55102	1105	Nickel	6020A	Approved
RCRA Metals in Soil #2	55103	1125	Potassium	6020A	Approved
RCRA Metals in Soil #1	55102	1140	Selenium	6020A	Approved
RCRA Metals in Soil #1	55102	1150	Silver	6020A	Approved
RCRA Metals in Soil #2	55103	1155	Sodium	6020A	Approved
RCRA Metals in Soil #1	55102	1160	Strontium	6020A	Approved
RCRA Metals in Soil #1	55102	1165	Thallium	6020A	Approved
RCRA Metals in Soil #1	55102	1175	Tin	6020A	Approved
RCRA Metals in Soil #1	55102	1180	Titanium	6020A	Approved
RCRA Metals in Soil #1	55102	1185	Vanadium	6020A	Approved
RCRA Metals in Soil #1	55102	1190	Zinc	6020A	Approved
NPTA			Zirconium	6020A	Approved
RCRA Perchlorate	55143	1895	Perchlorate	6850	Approved
RCRA Hexavalent Chromium	55104	1045	Chromium VI	7196A	Approved
RCRA Hexavalent Chromium	55104	1045	Chromium VI	7199	Approved
TCLP Metals	SPE-005	1095	Mercury, Hg	7470A	Approved
TCLP Metals in Soil - CA WET	SPE-006	1095	Mercury, Hg	7470A	Approved
RCRA Metals in Soil #1	55102	1095	Mercury	7471B	Approved
Petroleum Hydrocarbons in Soil	SPE-007	9369	Diesel Range Organics C10-C28	8015B	Approved
Petroleum Hydrocarbons in Soil	SPE-007	9369	Diesel Range Organics C10-C28	8015C	Approved
Petroleum Hydrocarbons in Soil	SPE-007	9369	Diesel Range Organics C10-C28	8015D	Approved
Petroleum Hydrocarbons in Soil	SPE-008	101	Gasoline Range Organics, C6-C10	8015B	Approved
Petroleum Hydrocarbons in Soil	SPE-008	101	Total Purgeable Hydrocarbons	8015B	Approved
Petroleum Hydrocarbons in Soil	SPE-008	9408	Gasoline Range Organics, C6-C10	8015C	Approved
Petroleum Hydrocarbons in Soil	SPE-008	99990	Total Purgeable Hydrocarbons	8015C	Approved
Petroleum Hydrocarbons in Soil	SPE-008	9408	Gasoline Range Organics, C6-C10	8015D	Approved
Petroleum Hydrocarbons in Soil	SPE-008	99990	Total Purgeable Hydrocarbons	8015D	Approved
Toxaphene in Soil	38066	8250	Toxaphene	8081A	Approved
Chlorinated Pesticides in Soil	38101	7355	4,4'-DDD	8081A	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
Chlorinated Pesticides in Soil	38101	7360	4,4'-DDE	8081A	Approved
Chlorinated Pesticides in Soil	38101	7365	4,4'-DDT	8081A	Approved
Chlorinated Pesticides in Soil	38101	7110	a-BHC	8081A	Approved
Chlorinated Pesticides in Soil	38101	7240	a-Chlordane	8081A	Approved
Chlorinated Pesticides in Soil	38101	7025	Aldrin	8081A	Approved
Chlorinated Pesticides in Soil	38101	7115	b-BHC	8081A	Approved
Chlorinated Pesticides in Soil	38101	7105	d-BHC	8081A	Approved
Chlorinated Pesticides in Soil	38101	7470	Dieldrin	8081A	Approved
Chlorinated Pesticides in Soil	38101	7510	Endosulfan I	8081A	Approved
Chlorinated Pesticides in Soil	38101	7515	Endosulfan II	8081A	Approved
Chlorinated Pesticides in Soil	38101	7520	Endosulfan sulfate	8081A	Approved
Chlorinated Pesticides in Soil	38101	7540	Endrin	8081A	Approved
Chlorinated Pesticides in Soil	38101	7530	Endrin aldehyde	8081A	Approved
Chlorinated Pesticides in Soil	38101	7535	Endrin ketone	8081A	Approved
Chlorinated Pesticides in Soil	38101	7120	g-BHC (Lindane)	8081A	Approved
Chlorinated Pesticides in Soil	38101	7245	g-Chlordane	8081A	Approved
Chlorinated Pesticides in Soil	38101	7685	Heptachlor	8081A	Approved
Chlorinated Pesticides in Soil	38101	7690	Heptachlor epoxide	8081A	Approved
Chlorinated Pesticides in Soil	38101	7810	Methoxychlor	8081A	Approved
Chlordane in Soil	38141	7250	Chlordane	8081A	Approved
Toxaphene in Soil	38066	8250	Toxaphene	8081B	Approved
Chlorinated Pesticides in Soil	38101	7355	4,4'-DDD	8081B	Approved
Chlorinated Pesticides in Soil	38101	7360	4,4'-DDE	8081B	Approved
Chlorinated Pesticides in Soil	38101	7365	4,4'-DDT	8081B	Approved
Chlorinated Pesticides in Soil	38101	7110	a-BHC	8081B	Approved
Chlorinated Pesticides in Soil	38101	7240	a-Chlordane	8081B	Approved
Chlorinated Pesticides in Soil	38101	7025	Aldrin	8081B	Approved
Chlorinated Pesticides in Soil	38101	7115	b-BHC	8081B	Approved
Chlorinated Pesticides in Soil	38101	7105	d-BHC	8081B	Approved
Chlorinated Pesticides in Soil	38101	7470	Dieldrin	8081B	Approved
Chlorinated Pesticides in Soil	38101	7510	Endosulfan I	8081B	Approved
Chlorinated Pesticides in Soil	38101	7515	Endosulfan II	8081B	Approved
Chlorinated Pesticides in Soil	38101	7520	Endosulfan sulfate	8081B	Approved
Chlorinated Pesticides in Soil	38101	7540	Endrin	8081B	Approved
Chlorinated Pesticides in Soil	38101	7530	Endrin aldehyde	8081B	Approved
Chlorinated Pesticides in Soil	38101	7535	Endrin ketone	8081B	Approved
Chlorinated Pesticides in Soil	38101	7120	g-BHC (Lindane)	8081B	Approved
Chlorinated Pesticides in Soil	38101	7245	g-Chlordane	8081B	Approved
Chlorinated Pesticides in Soil	38101	7685	Heptachlor	8081B	Approved
Chlorinated Pesticides in Soil	38101	7690	Heptachlor epoxide	8081B	Approved
Chlorinated Pesticides in Soil	38101	7810	Methoxychlor	8081B	Approved
Chlordane in Soil	38141	7250	Chlordane	8081B	Approved
PCBs in Transformer Oil #2	38092	8880	PCB in Oil 1016	8082	Approved
PCBs in Transformer Oil #2	38092	8895	PCB in Oil 1242	8082	Approved
PCBs in Transformer Oil #2	38092	8905	PCB in Oil 1254	8082	Approved
PCBs in Transformer Oil #2	38092	8910	PCB in Oil 1260	8082	Approved
PCBs in Transformer Oil #2	38095	8880	PCB in Oil 1016	8082	Approved
PCBs in Transformer Oil #2	38095	8895	PCB in Oil 1242	8082	Approved
PCBs in Transformer Oil #2	38095	8905	PCB in Oil 1254	8082	Approved
PCBs in Transformer Oil #2	38095	8910	PCB in Oil 1260	8082	Approved
Aroclor in Soil	38142	8880	Aroclor 1016	8082	Approved
Aroclor in Soil	38142	8885	Aroclor 1221	8082	Approved
Aroclor in Soil	38142	8890	Aroclor 1232	8082	Approved
Aroclor in Soil	38142	8895	Aroclor 1242	8082	Approved
Aroclor in Soil	38142	8900	Aroclor 1248	8082	Approved
Aroclor in Soil	38142	8905	Aroclor 1254	8082	Approved
Aroclor in Soil	38142	8910	Aroclor 1260	8082	Approved
PCB in Soil	SPE-010	8912	Aroclor 1016/1242	8082	Approved
PCB in Soil	SPE-010	8880	Aroclor-1016 (PCB-1016)	8082	Approved
PCB in Soil	SPE-010	8885	Aroclor-1221 (PCB-1221)	8082	Approved
PCB in Soil	SPE-010	8890	Aroclor-1232 (PCB-1232)	8082	Approved
PCB in Soil	SPE-010	8895	Aroclor-1242 (PCB-1242)	8082	Approved
PCB in Soil	SPE-010	8900	Aroclor-1248 (PCB-1248)	8082	Approved
PCB in Soil	SPE-010	8905	Aroclor-1254 (PCB-1254)	8082	Approved
PCB in Soil	SPE-010	8910	Aroclor-1260 (PCB-1260)	8082	Approved
PCB in Soil	SPE-010	8912	Aroclor 1016/1242	8082	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
PCB in Soil	SPE-010	8880	Aroclor-1016 (PCB-1016)	8082	Approved
PCB in Soil	SPE-010	8885	Aroclor-1221 (PCB-1221)	8082	Approved
PCB in Soil	SPE-010	8890	Aroclor-1232 (PCB-1232)	8082	Approved
PCB in Soil	SPE-010	8895	Aroclor-1242 (PCB-1242)	8082	Approved
PCB in Soil	SPE-010	8900	Aroclor-1248 (PCB-1248)	8082	Approved
PCB in Soil	SPE-010	8905	Aroclor-1254 (PCB-1254)	8082	Approved
PCB in Soil	SPE-010	8910	Aroclor-1260 (PCB-1260)	8082	Approved
PCBs in Transformer Oil #2	38092	8880	PCB in Oil 1016	8082A	Approved
PCBs in Transformer Oil #2	38092	8895	PCB in Oil 1242	8082A	Approved
PCBs in Transformer Oil #2	38092	8905	PCB in Oil 1254	8082A	Approved
PCBs in Transformer Oil #2	38092	8910	PCB in Oil 1260	8082A	Approved
PCBs in Transformer Oil #2	38095	8880	PCB in Oil 1016	8082A	Approved
PCBs in Transformer Oil #2	38095	8895	PCB in Oil 1242	8082A	Approved
PCBs in Transformer Oil #2	38095	8905	PCB in Oil 1254	8082A	Approved
PCBs in Transformer Oil #2	38095	8910	PCB in Oil 1260	8082A	Approved
Aroclor in Soil	38142	8880	Aroclor 1016	8082A	Approved
Aroclor in Soil	38142	8885	Aroclor 1221	8082A	Approved
Aroclor in Soil	38142	8890	Aroclor 1232	8082A	Approved
Aroclor in Soil	38142	8895	Aroclor 1242	8082A	Approved
Aroclor in Soil	38142	8900	Aroclor 1248	8082A	Approved
Aroclor in Soil	38142	8905	Aroclor 1254	8082A	Approved
Aroclor in Soil	38142	8910	Aroclor 1260	8082A	Approved
PCB in Soil	SPE-010	8912	Aroclor 1016/1242	8082A	Approved
PCB in Soil	SPE-010	8880	Aroclor-1016 (PCB-1016)	8082A	Approved
PCB in Soil	SPE-010	8885	Aroclor-1221 (PCB-1221)	8082A	Approved
PCB in Soil	SPE-010	8890	Aroclor-1232 (PCB-1232)	8082A	Approved
PCB in Soil	SPE-010	8895	Aroclor-1242 (PCB-1242)	8082A	Approved
PCB in Soil	SPE-010	8900	Aroclor-1248 (PCB-1248)	8082A	Approved
PCB in Soil	SPE-010	8905	Aroclor-1254 (PCB-1254)	8082A	Approved
PCB in Soil	SPE-010	8910	Aroclor-1260 (PCB-1260)	8082A	Approved
PCB in Soil	SPE-010	8912	Aroclor 1016/1242	8082A	Approved
PCB in Soil	SPE-010	8880	Aroclor-1016 (PCB-1016)	8082A	Approved
PCB in Soil	SPE-010	8885	Aroclor-1221 (PCB-1221)	8082A	Approved
PCB in Soil	SPE-010	8890	Aroclor-1232 (PCB-1232)	8082A	Approved
PCB in Soil	SPE-010	8895	Aroclor-1242 (PCB-1242)	8082A	Approved
PCB in Soil	SPE-010	8900	Aroclor-1248 (PCB-1248)	8082A	Approved
PCB in Soil	SPE-010	8905	Aroclor-1254 (PCB-1254)	8082A	Approved
PCB in Soil	SPE-010	8910	Aroclor-1260 (PCB-1260)	8082A	Approved
OrganoPhosphorus Pesticides	38151	7075	Azinphosmethyl	8141A	Approved
OrganoPhosphorus Pesticides	38151	7390	Demeton, (Mix of Isomers O:S)	8141A	Approved
OrganoPhosphorus Pesticides	38151	7410	Diazinon	8141A	Approved
OrganoPhosphorus Pesticides	38151	8625	Disulfoton	8141A	Approved
OrganoPhosphorus Pesticides	38151	8110	Fenchlorphos (Ronnel)	8141A	Approved
OrganoPhosphorus Pesticides	38151	7770	Malathion	8141A	Approved
OrganoPhosphorus Pesticides	38151	7955	Parathion ethyl	8141A	Approved
OrganoPhosphorus Pesticides	38151	7825	Parathion methyl	8141A	Approved
OrganoPhosphorus Pesticides	38151	7985	Phorate	8141A	Approved
OrganoPhosphorus Pesticides	38151	8200	Tetrachlorvinphos (Stirophos)	8141A	Approved
OrganoPhosphorus Pesticides	38151	7075	Azinphosmethyl	8141B	Approved
OrganoPhosphorus Pesticides	38151	7390	Demeton, (Mix of Isomers O:S)	8141B	Approved
OrganoPhosphorus Pesticides	38151	7410	Diazinon	8141B	Approved
OrganoPhosphorus Pesticides	38151	8625	Disulfoton	8141B	Approved
OrganoPhosphorus Pesticides	38151	8110	Fenchlorphos (Ronnel)	8141B	Approved
OrganoPhosphorus Pesticides	38151	7770	Malathion	8141B	Approved
OrganoPhosphorus Pesticides	38151	7955	Parathion ethyl	8141B	Approved
OrganoPhosphorus Pesticides	38151	7825	Parathion methyl	8141B	Approved
OrganoPhosphorus Pesticides	38151	7985	Phorate	8141B	Approved
OrganoPhosphorus Pesticides	38151	8200	Tetrachlorvinphos (Stirophos)	8141B	Approved
Herbicide Acids in Soil	38146	8655	2,4,5-T	8151A	Approved
Herbicide Acids in Soil	38146	8650	2,4,5-TP	8151A	Approved
Herbicide Acids in Soil	38146	8545	2,4-D	8151A	Approved
Herbicide Acids in Soil	38146	8560	2,4-DB	8151A	Approved
Herbicide Acids in Soil	38146	8555	Dalapon	8151A	Approved
Herbicide Acids in Soil	38146	8595	Dicamba	8151A	Approved
Herbicide Acids in Soil	38146	8620	Dinoseb	8151A	Approved
Herbicide Acids in Soil	38146	6605	Pentachlorophenol	8151A	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
NPTA			Dichlorprop (2,4-DP)	8151A	Approved
NPTA			MCPA	8151A	Approved
NPTA			MSPP	8151A	Approved
Volatiles in Soil	38084	5105	1,1,1,2-Tetrachloroethane	8260B	Approved
Volatiles in Soil	38084	5160	1,1,1-Trichloroethane	8260B	Approved
Volatiles in Soil	38084	5110	1,1,2,2-Tetrachloroethane	8260B	Approved
Volatiles in Soil	38084	5165	1,1,2-Trichloroethane	8260B	Approved
Volatiles in Soil	38084	4630	1,1-Dichloroethane	8260B	Approved
Volatiles in Soil	38084	4640	1,1-Dichloroethene	8260B	Approved
Volatiles in Soil	38084	4670	1,1-Dichloropropene	8260B	Approved
Volatiles in Soil	38084	5150	1,2,3-Trichlorobenzene	8260B	Approved
Volatiles in Soil	38084	5180	1,2,3-Trichloropropane	8260B	Approved
Volatiles in Soil	38084	5155	1,2,4-Trichlorobenzene	8260B	Approved
Volatiles in Soil	38084	5210	1,2,4-Trimethylbenzene	8260B	Approved
Volatiles in Soil	38084	4570	1,2-Dibromo-3-chloropropane	8260B	Approved
Volatiles in Soil	38084	4585	1,2-Dibromoethane	8260B	Approved
Volatiles in Soil	38084	4610	1,2-Dichlorobenzene	8260B	Approved
Volatiles in Soil	38084	4635	1,2-Dichloroethane	8260B	Approved
Volatiles in Soil	38084	4655	1,2-Dichloropropane	8260B	Approved
Volatiles in Soil	38084	5215	1,3,5-Trimethylbenzene	8260B	Approved
Volatiles in Soil	38084	4615	1,3-Dichlorobenzene	8260B	Approved
Volatiles in Soil	38084	4660	1,3-Dichloropropane	8260B	Approved
Volatiles in Soil	38084	4620	1,4-Dichlorobenzene	8260B	Approved
Volatiles in Soil	38084	4665	2,2-Dichloropropane	8260B	Approved
Volatiles in Soil	38084	4535	2-Chlorotoluene	8260B	Approved
Volatiles in Soil	38084	4540	4-Chlorotoluene	8260B	Approved
Volatiles in Soil	38084	4995	4-Methyl-2-pentanone	8260B	Approved
Volatiles in Soil	38084	4375	Benzene	8260B	Approved
Volatiles in Soil	38084	4385	Bromobenzene	8260B	Approved
Volatiles in Soil	38084	4390	Bromochloromethane	8260B	Approved
Volatiles in Soil	38084	4395	Bromodichloromethane	8260B	Approved
Volatiles in Soil	38084	4400	Bromoform	8260B	Approved
Volatiles in Soil	38084	4950	Bromomethane	8260B	Approved
Volatiles in Soil	38084	4450	Carbon disulphide	8260B	Approved
Volatiles in Soil	38084	4455	Carbon tetrachloride	8260B	Approved
Volatiles in Soil	38084	4475	Chlorobenzene	8260B	Approved
Volatiles in Soil	38084	4485	Chloroethane	8260B	Approved
Volatiles in Soil	38084	4505	Chloroform	8260B	Approved
Volatiles in Soil	38084	4960	Chloromethane	8260B	Approved
Volatiles in Soil	38084	4645	cis-1,2-Dichloroethene	8260B	Approved
Volatiles in Soil	38084	4680	cis-1,3-Dichloropropene	8260B	Approved
Volatiles in Soil	38084	4575	Dibromochloromethane	8260B	Approved
Volatiles in Soil	38084	4595	Dibromomethane	8260B	Approved
Volatiles in Soil	38084	4625	Dichlorodifluoromethane	8260B	Approved
Volatiles in Soil	38084	4765	Ethyl benzene	8260B	Approved
Volatiles in Soil	38084	4835	Hexachlorobutadiene	8260B	Approved
Volatiles in Soil	38084	4840	Hexachloroethane	8260B	Approved
Volatiles in Soil	38084	4900	Isopropylbenzene	8260B	Approved
Volatiles in Soil	38084	5000	Methyl tert-butyl ether (MTBE)	8260B	Approved
Volatiles in Soil	38084	4975	Methylene chloride	8260B	Approved
Volatiles in Soil	38084	5005	Naphthalene	8260B	Approved
Volatiles in Soil	38084	4435	n-Butyl benzene	8260B	Approved
Volatiles in Soil	38084	5090	n-Propylbenzene	8260B	Approved
Volatiles in Soil	38084	4910	p-Isopropyl toluene	8260B	Approved
Volatiles in Soil	38084	4440	sec-Butyl benzene	8260B	Approved
Volatiles in Soil	38084	5100	Styrene	8260B	Approved
Volatiles in Soil	38084	4445	tert-Butyl benzene	8260B	Approved
Volatiles in Soil	38084	5140	Toluene	8260B	Approved
Volatiles in Soil	38084	5260	Total Xylenes	8260B	Approved
Volatiles in Soil	38084	4700	trans-1,2-Dichloroethene	8260B	Approved
Volatiles in Soil	38084	5170	Trichloroethene	8260B	Approved
Volatiles in Soil	38084	5175	Trichlorofluoromethane	8260B	Approved
Volatiles in Soil	38084	5235	Vinyl chloride	8260B	Approved
RCRA BTEX & MTBE	38161	4375	Benzene	8260B	Approved
RCRA BTEX & MTBE	38161	4765	Ethyl benzene	8260B	Approved
RCRA BTEX & MTBE	38161	5140	Toluene	8260B	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
RCRA BTEX & MTBE	38161	5000	Methyl tert-butyl ether (MTBE)	8260B	Approved
RCRA BTEX & MTBE	38161	5260	Total Xylenes	8260B	Approved
RCRA Ketones in Soil	38167	4410	2-Butanone (Methyl ethyl ketone)	8260B	Approved
RCRA Ketones in Soil	38167	4860	2-Hexanone	8260B	Approved
RCRA Ketones in Soil	38167	4995	4-Methyl-2-pentanone	8260B	Approved
RCRA Ketones in Soil	38167	4315	Acetone	8260B	Approved
RCRA Oxygenates	38169	5185	1,1,2-Trichlorotrifluoroethane	8260B	Approved
RCRA Oxygenates	38169	4770	Ethyl tert-butyl ether	8260B	Approved
RCRA Oxygenates	38169	9375	Isopropyl ether	8260B	Approved
RCRA Oxygenates	38169	5000	Methyl tert-butyl ether (MTBE)	8260B	Approved
RCRA Oxygenates	38169	5090	n-Propylbenzene	8260B	Approved
RCRA Oxygenates	38169	4370	tert-Amyl methyl ether	8260B	Approved
RCRA Oxygenates	38169	4420	tert-Butyl alcohol (t-Butanol)	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5105	1,1,1,2-Tetrachloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5160	1,1,1-Trichloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5110	1,1,2,2-Tetrachloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5165	1,1,2-Trichloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4630	1,1-Dichloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4640	1,1-Dichloroethene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5180	1,2,3-Trichloropropane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5155	1,2,4-Trichlorobenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4570	1,2-Dibromo-3-chloropropane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4585	1,2-Dibromoethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4610	1,2-Dichlorobenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4635	1,2-Dichloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4655	1,2-Dichloropropane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4615	1,3-Dichlorobenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4620	1,4-Dichlorobenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4410	2-Butanone (Methyl ethyl ketone)	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4860	2-Hexanone	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4995	4-Methyl-2-pentanone	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4315	Acetone	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4375	Benzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4385	Bromobenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4395	Bromodichloromethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4400	Bromoform	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4950	Bromomethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4455	Carbon tetrachloride	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4475	Chlorobenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4485	Chloroethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4505	Chloroform	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4960	Chloromethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4645	cis-1,2-Dichloroethene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4680	cis-1,3-Dichloropropene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4575	Dibromochloromethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4595	Dibromomethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4625	Dichlorodifluoromethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4765	Ethyl benzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4900	Isopropylbenzene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5000	Methyl tert-butyl ether (MTBE)	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4975	Methylene chloride	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5005	Naphthalene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5100	Styrene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5115	Tetrachloroethene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5140	Toluene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4700	trans-1,2-Dichloroethene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	4685	trans-1,3-Dichloropropene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5170	Trichloroethene	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5175	Trichlorofluoromethane	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5235	Vinyl chloride	8260B	Approved
RCRA Medium Level Volatiles in Soil	38199	5260	Xylenes, total	8260B	Approved
GRO/BTEX in Soil	SPE-025AK	4375	Benzene	8260B	Approved
GRO/BTEX in Soil	SPE-025AK	4765	Ethylbenzene	8260B	Approved
GRO/BTEX in Soil	SPE-025AK	5240	m+p-Xylene	8260B	Approved
GRO/BTEX in Soil	SPE-025AK	5000	MTBE	8260B	Approved
GRO/BTEX in Soil	SPE-025AK	5250	o-Xylene	8260B	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
GRO/BTEX in Soil	SPE-025AK	5140	Toluene	8260B	Approved
GRO/BTEX in Soil	SPE-025AK	5260	Xylene, total	8260B	Approved
NPTA			Cyclohexane	8260B	Approved
NPTA			Methyl Acetate	8260B	Approved
NPTA			Methylcyclohexane	8260B	Approved
NPTA			m&p Xylenes	8260B	Approved
NPTA			o-Xylene	8260B	Approved
NPTA			p-isopropyltoluene	8260B	Approved
NPTA			Vinyl Acetate	8260B	Approved
Volatiles in Soil	38084	5105	1,1,1,2-Tetrachloroethane	8260C	Approved
Volatiles in Soil	38084	5160	1,1,1-Trichloroethane	8260C	Approved
Volatiles in Soil	38084	5110	1,1,2,2-Tetrachloroethane	8260C	Approved
Volatiles in Soil	38084	5165	1,1,2-Trichloroethane	8260C	Approved
Volatiles in Soil	38084	4630	1,1-Dichloroethane	8260C	Approved
Volatiles in Soil	38084	4640	1,1-Dichloroethene	8260C	Approved
Volatiles in Soil	38084	4670	1,1-Dichloropropene	8260C	Approved
Volatiles in Soil	38084	5150	1,2,3-Trichlorobenzene	8260C	Approved
Volatiles in Soil	38084	5180	1,2,3-Trichloropropane	8260C	Approved
Volatiles in Soil	38084	5155	1,2,4-Trichlorobenzene	8260C	Approved
Volatiles in Soil	38084	5210	1,2,4-Trimethylbenzene	8260C	Approved
Volatiles in Soil	38084	4570	1,2-Dibromo-3-chloropropane	8260C	Approved
Volatiles in Soil	38084	4585	1,2-Dibromoethane	8260C	Approved
Volatiles in Soil	38084	4610	1,2-Dichlorobenzene	8260C	Approved
Volatiles in Soil	38084	4635	1,2-Dichloroethane	8260C	Approved
Volatiles in Soil	38084	4655	1,2-Dichloropropane	8260C	Approved
Volatiles in Soil	38084	5215	1,3,5-Trimethylbenzene	8260C	Approved
Volatiles in Soil	38084	4615	1,3-Dichlorobenzene	8260C	Approved
Volatiles in Soil	38084	4660	1,3-Dichloropropane	8260C	Approved
Volatiles in Soil	38084	4620	1,4-Dichlorobenzene	8260C	Approved
Volatiles in Soil	38084	4665	2,2-Dichloropropane	8260C	Approved
Volatiles in Soil	38084	4535	2-Chlorotoluene	8260C	Approved
Volatiles in Soil	38084	4540	4-Chlorotoluene	8260C	Approved
Volatiles in Soil	38084	4995	4-Methyl-2-pentanone	8260C	Approved
Volatiles in Soil	38084	4375	Benzene	8260C	Approved
Volatiles in Soil	38084	4385	Bromobenzene	8260C	Approved
Volatiles in Soil	38084	4390	Bromochloromethane	8260C	Approved
Volatiles in Soil	38084	4395	Bromodichloromethane	8260C	Approved
Volatiles in Soil	38084	4400	Bromoform	8260C	Approved
Volatiles in Soil	38084	4950	Bromomethane	8260C	Approved
Volatiles in Soil	38084	4450	Carbon disulphide	8260C	Approved
Volatiles in Soil	38084	4455	Carbon tetrachloride	8260C	Approved
Volatiles in Soil	38084	4475	Chlorobenzene	8260C	Approved
Volatiles in Soil	38084	4485	Chloroethane	8260C	Approved
Volatiles in Soil	38084	4505	Chloroform	8260C	Approved
Volatiles in Soil	38084	4960	Chloromethane	8260C	Approved
Volatiles in Soil	38084	4645	cis-1,2-Dichloroethene	8260C	Approved
Volatiles in Soil	38084	4680	cis-1,3-Dichloropropene	8260C	Approved
Volatiles in Soil	38084	4575	Dibromochloromethane	8260C	Approved
Volatiles in Soil	38084	4595	Dibromomethane	8260C	Approved
Volatiles in Soil	38084	4625	Dichlorodifluoromethane	8260C	Approved
Volatiles in Soil	38084	4765	Ethyl benzene	8260C	Approved
Volatiles in Soil	38084	4835	Hexachlorobutadiene	8260C	Approved
Volatiles in Soil	38084	4840	Hexachloroethane	8260C	Approved
Volatiles in Soil	38084	4900	Isopropylbenzene	8260C	Approved
Volatiles in Soil	38084	5000	Methyl tert-butyl ether (MTBE)	8260C	Approved
Volatiles in Soil	38084	4975	Methylene chloride	8260C	Approved
Volatiles in Soil	38084	5005	Naphthalene	8260C	Approved
Volatiles in Soil	38084	4435	n-Butyl benzene	8260C	Approved
Volatiles in Soil	38084	5090	n-Propylbenzene	8260C	Approved
Volatiles in Soil	38084	4910	p-Isopropyl toluene	8260C	Approved
Volatiles in Soil	38084	4440	sec-Butyl benzene	8260C	Approved
Volatiles in Soil	38084	5100	Styrene	8260C	Approved
Volatiles in Soil	38084	4445	tert-Butyl benzene	8260C	Approved
Volatiles in Soil	38084	5140	Toluene	8260C	Approved
Volatiles in Soil	38084	5260	Total Xylenes	8260C	Approved
Volatiles in Soil	38084	4700	trans-1,2-Dichloroethene	8260C	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
Volatiles in Soil	38084	5170	Trichloroethene	8260C	Approved
Volatiles in Soil	38084	5175	Trichlorofluoromethane	8260C	Approved
Volatiles in Soil	38084	5235	Vinyl chloride	8260C	Approved
RCRA BTEX & MTBE	38161	4375	Benzene	8260C	Approved
RCRA BTEX & MTBE	38161	4765	Ethyl benzene	8260C	Approved
RCRA BTEX & MTBE	38161	5140	Toluene	8260C	Approved
RCRA BTEX & MTBE	38161	5000	Methyl tert-butyl ether (MTBE)	8260C	Approved
RCRA BTEX & MTBE	38161	5260	Total Xylenes	8260C	Approved
RCRA Ketones in Soil	38167	4410	2-Butanone (Methyl ethyl ketone)	8260C	Approved
RCRA Ketones in Soil	38167	4860	2-Hexanone	8260C	Approved
RCRA Ketones in Soil	38167	4995	4-Methyl-2-pentanone	8260C	Approved
RCRA Ketones in Soil	38167	4315	Acetone	8260C	Approved
RCRA Oxygenates	38169	5185	1,1,2-Trichlorotrifluoroethane	8260C	Approved
RCRA Oxygenates	38169	4770	Ethyl tert-butyl ether	8260C	Approved
RCRA Oxygenates	38169	9375	Isopropyl ether	8260C	Approved
RCRA Oxygenates	38169	5000	Methyl tert-butyl ether (MTBE)	8260C	Approved
RCRA Oxygenates	38169	5090	n-Propylbenzene	8260C	Approved
RCRA Oxygenates	38169	4370	tert-Amyl methyl ether	8260C	Approved
RCRA Oxygenates	38169	4420	tert-Butyl alcohol (t-Butanol)	8260C	Approved
NPTA			Cyclohexane	8260C	Approved
NPTA			Methyl Acetate	8260C	Approved
NPTA			Methylcyclohexane	8260C	Approved
NPTA			m&p Xylenes	8260C	Approved
NPTA			o-Xylene	8260C	Approved
NPTA			p-isopropyltoluene	8260C	Approved
NPTA			Vinyl Acetate	8260C	Approved
Acenaphthylene in Soils	SPE-003	5505	Acenaphthylene	8270C	Approved
BNAs in Soil	SPE-003	5155	1,2,4-Trichlorobenzene	8270C	Approved
BNAs in Soil	SPE-003	4610	1,2-Dichlorobenzene	8270C	Approved
BNAs in Soil	SPE-003	4615	1,3-Dichlorobenzene	8270C	Approved
BNAs in Soil	SPE-003	4620	1,4-Dichlorobenzene	8270C	Approved
BNAs in Soil	SPE-003	6835	2,4,5-Trichlorophenol	8270C	Approved
BNAs in Soil	SPE-003	6840	2,4,6-Trichlorophenol	8270C	Approved
BNAs in Soil	SPE-003	6000	2,4-Dichlorophenol	8270C	Approved
BNAs in Soil	SPE-003	6130	2,4-Dimethylphenol	8270C	Approved
BNAs in Soil	SPE-003	6175	2,4-Dinitrophenol	8270C	Approved
BNAs in Soil	SPE-003	6185	2,4-Dinitrotoluene (2,4-DNT)	8270C	Approved
BNAs in Soil	SPE-003	6005	2,6-Dichlorophenol	8270C	Approved
BNAs in Soil	SPE-003	6190	2,6-Dinitrotoluene (2,6-DNT)	8270C	Approved
BNAs in Soil	SPE-003	5795	2-Chloronaphthalene	8270C	Approved
BNAs in Soil	SPE-003	5800	2-Chlorophenol	8270C	Approved
BNAs in Soil	SPE-003	6360	2-Methyl-4,6-dinitrophenol	8270C	Approved
BNAs in Soil	SPE-003	6385	2-Methylnaphthalene	8270C	Approved
BNAs in Soil	SPE-003	6400	2-Methylphenol (o-Cresol)	8270C	Approved
BNAs in Soil	SPE-003	6460	2-Nitroaniline	8270C	Approved
BNAs in Soil	SPE-003	6490	2-Nitrophenol	8270C	Approved
BNAs in Soil	SPE-003	5945	3,3'-Dichlorobenzidine	8270C	Approved
BNAs in Soil	SPE-003	6410	3+4-Methylphenol (m+p-Cresol)	8270C	Approved
BNAs in Soil	SPE-003	6405	3-Methylphenol (m-Cresol)	8270C	Approved
BNAs in Soil	SPE-003	6465	3-Nitroaniline	8270C	Approved
BNAs in Soil	SPE-003	5660	4-Bromophenyl phenyl ether	8270C	Approved
BNAs in Soil	SPE-003	5700	4-Chloro-3-methylphenol	8270C	Approved
BNAs in Soil	SPE-003	5745	4-Chloroaniline	8270C	Approved
BNAs in Soil	SPE-003	5825	4-Chlorophenyl phenylether	8270C	Approved
BNAs in Soil	SPE-003	6410	4-Methylphenol (p-Cresol)	8270C	Approved
BNAs in Soil	SPE-003	6470	4-Nitroaniline	8270C	Approved
BNAs in Soil	SPE-003	6500	4-Nitrophenol	8270C	Approved
BNAs in Soil	SPE-003	5500	Acenaphthene	8270C	Approved
BNAs in Soil	SPE-003	5505	Acenaphthylene	8270C	Approved
BNAs in Soil	SPE-003	5545	Aniline	8270C	Approved
BNAs in Soil	SPE-003	5555	Anthracene	8270C	Approved
BNAs in Soil	SPE-003	5595	Benzidine	8270C	Approved
BNAs in Soil	SPE-003	5575	Benzo(a)anthracene	8270C	Approved
BNAs in Soil	SPE-003	5580	Benzo(a)pyrene	8270C	Approved
BNAs in Soil	SPE-003	5585	Benzo(b)fluoranthene	8270C	Approved
BNAs in Soil	SPE-003	5590	Benzo(g,h,i)perylene	8270C	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
BNAs in Soil	SPE-003	5600	Benzo(k)fluoranthene	8270C	Approved
BNAs in Soil	SPE-003	5610	Benzoic acid	8270C	Approved
BNAs in Soil	SPE-003	5630	Benzyl alcohol	8270C	Approved
BNAs in Soil	SPE-003	5760	bis(2-Chloroethoxy)methane	8270C	Approved
BNAs in Soil	SPE-003	5765	bis(2-Chloroethyl) ether	8270C	Approved
BNAs in Soil	SPE-003	5780	bis(2-Chloroisopropyl) ether	8270C	Approved
BNAs in Soil	SPE-003	6255	bis(2-Ethylhexyl) phthalate (DEHP)	8270C	Approved
BNAs in Soil	SPE-003	5670	Butyl benzyl phthalate	8270C	Approved
BNAs in Soil	SPE-003	5680	Carbazole	8270C	Approved
BNAs in Soil	SPE-003	5855	Chrysene	8270C	Approved
BNAs in Soil	SPE-003	5895	Dibenz(a,h) anthracene	8270C	Approved
BNAs in Soil	SPE-003	5905	Dibenzofuran	8270C	Approved
BNAs in Soil	SPE-003	6070	Diethyl phthalate	8270C	Approved
BNAs in Soil	SPE-003	6135	Dimethyl phthalate	8270C	Approved
BNAs in Soil	SPE-003	5925	Di-n-butyl phthalate	8270C	Approved
BNAs in Soil	SPE-003	6200	Di-n-octyl phthalate	8270C	Approved
BNAs in Soil	SPE-003	6265	Fluoranthene	8270C	Approved
BNAs in Soil	SPE-003	6270	Fluorene	8270C	Approved
BNAs in Soil	SPE-003	6275	Hexachlorobenzene	8270C	Approved
BNAs in Soil	SPE-003	4835	Hexachlorobutadiene	8270C	Approved
BNAs in Soil	SPE-003	6285	Hexachlorocyclopentadiene	8270C	Approved
BNAs in Soil	SPE-003	4840	Hexachloroethane	8270C	Approved
BNAs in Soil	SPE-003	6315	Indeno(1,2,3-cd) pyrene	8270C	Approved
BNAs in Soil	SPE-003	6320	Isophorone	8270C	Approved
BNAs in Soil	SPE-003	5005	Naphthalene	8270C	Approved
BNAs in Soil	SPE-003	5015	Nitrobenzene	8270C	Approved
BNAs in Soil	SPE-003	6530	n-Nitrosodimethylamine	8270C	Approved
BNAs in Soil	SPE-003	6545	n-Nitroso-di-n-propylamine	8270C	Approved
BNAs in Soil	SPE-003	6535	n-Nitrosodiphenylamine	8270C	Approved
BNAs in Soil	SPE-003	6605	Pentachlorophenol	8270C	Approved
BNAs in Soil	SPE-003	6615	Phenanthrene	8270C	Approved
BNAs in Soil	SPE-003	6625	Phenol	8270C	Approved
BNAs in Soil	SPE-003	6665	Pyrene	8270C	Approved
BNAs in Soil	SPE-003	5095	Pyridine	8270C	Approved
Low-Level PAHs in Soil	722	6665	Pyrene	8270CSIM	Approved
PAHs - Solids	SPE-017	5005	Naphthalene	8270CSIM	Approved
PAHs - Solids	SPE-017	5500	Acenaphthene	8270CSIM	Approved
PAHs - Solids	SPE-017	5505	Acenaphthylene	8270CSIM	Approved
PAHs - Solids	SPE-017	5555	Anthracene	8270CSIM	Approved
PAHs - Solids	SPE-017	5575	Benzo(a)anthracene	8270CSIM	Approved
PAHs - Solids	SPE-017	5580	Benzo(a)pyrene	8270CSIM	Approved
PAHs - Solids	SPE-017	5585	Benzo(b)fluoranthene	8270CSIM	Approved
PAHs - Solids	SPE-017	5590	Benzo(g,h,I)perylene	8270CSIM	Approved
PAHs - Solids	SPE-017	5600	Benzo(k)fluoranthene	8270CSIM	Approved
PAHs - Solids	SPE-017	5855	Chrysene	8270CSIM	Approved
PAHs - Solids	SPE-017	5895	Dibenzo(a,h)anthracene	8270CSIM	Approved
PAHs - Solids	SPE-017	6265	Fluoranthene	8270CSIM	Approved
PAHs - Solids	SPE-017	6270	Fluorene	8270CSIM	Approved
PAHs - Solids	SPE-017	6315	Indeno(1,2,3-cd) pyrene	8270CSIM	Approved
PAHs - Solids	SPE-017	6385	2-Methylnaphthalene	8270CSIM	Approved
PAHs - Solids	SPE-017	6615	Phenanthrene	8270CSIM	Approved
PAHs - Solids	SPE-017	6665	Pyrene	8270CSIM	Approved
BNAs in Soil	SPE-003	5155	1,2,4-Trichlorobenzene	8270D	Approved
BNAs in Soil	SPE-003	4610	1,2-Dichlorobenzene	8270D	Approved
BNAs in Soil	SPE-003	4615	1,3-Dichlorobenzene	8270D	Approved
BNAs in Soil	SPE-003	4620	1,4-Dichlorobenzene	8270D	Approved
BNAs in Soil	SPE-003	6835	2,4,5-Trichlorophenol	8270D	Approved
BNAs in Soil	SPE-003	6840	2,4,6-Trichlorophenol	8270D	Approved
BNAs in Soil	SPE-003	6000	2,4-Dichlorophenol	8270D	Approved
BNAs in Soil	SPE-003	6130	2,4-Dimethylphenol	8270D	Approved
BNAs in Soil	SPE-003	6175	2,4-Dinitrophenol	8270D	Approved
BNAs in Soil	SPE-003	6185	2,4-Dinitrotoluene (2,4-DNT)	8270D	Approved
BNAs in Soil	SPE-003	6005	2,6-Dichlorophenol	8270D	Approved
BNAs in Soil	SPE-003	6190	2,6-Dinitrotoluene (2,6-DNT)	8270D	Approved
BNAs in Soil	SPE-003	5795	2-Chloronaphthalene	8270D	Approved
BNAs in Soil	SPE-003	5800	2-Chlorophenol	8270D	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
BNAs in Soil	SPE-003	6360	2-Methyl-4,6-dinitrophenol	8270D	Approved
BNAs in Soil	SPE-003	6385	2-Methylnaphthalene	8270D	Approved
BNAs in Soil	SPE-003	6400	2-Methylphenol (o-Cresol)	8270D	Approved
BNAs in Soil	SPE-003	6460	2-Nitroaniline	8270D	Approved
BNAs in Soil	SPE-003	6490	2-Nitrophenol	8270D	Approved
BNAs in Soil	SPE-003	5945	3,3'-Dichlorobenzidine	8270D	Approved
BNAs in Soil	SPE-003	6410	3+4-Methylphenol (m+p-Cresol)	8270D	Approved
BNAs in Soil	SPE-003	6405	3-Methylphenol (m-Cresol)	8270D	Approved
BNAs in Soil	SPE-003	6465	3-Nitroaniline	8270D	Approved
BNAs in Soil	SPE-003	5660	4-Bromophenyl phenyl ether	8270D	Approved
BNAs in Soil	SPE-003	5700	4-Chloro-3-methylphenol	8270D	Approved
BNAs in Soil	SPE-003	5745	4-Chloroaniline	8270D	Approved
BNAs in Soil	SPE-003	5825	4-Chlorophenyl phenylether	8270D	Approved
BNAs in Soil	SPE-003	6410	4-Methylphenol (p-Cresol)	8270D	Approved
BNAs in Soil	SPE-003	6470	4-Nitroaniline	8270D	Approved
BNAs in Soil	SPE-003	6500	4-Nitrophenol	8270D	Approved
BNAs in Soil	SPE-003	5500	Acenaphthene	8270D	Approved
BNAs in Soil	SPE-003	5505	Acenaphthylene	8270D	Approved
BNAs in Soil	SPE-003	5545	Aniline	8270D	Approved
BNAs in Soil	SPE-003	5555	Anthracene	8270D	Approved
BNAs in Soil	SPE-003	5595	Benzidine	8270D	Approved
BNAs in Soil	SPE-003	5575	Benzo(a)anthracene	8270D	Approved
BNAs in Soil	SPE-003	5580	Benzo(a)pyrene	8270D	Approved
BNAs in Soil	SPE-003	5585	Benzo(b)fluoranthene	8270D	Approved
BNAs in Soil	SPE-003	5590	Benzo(g,h,i)perylene	8270D	Approved
BNAs in Soil	SPE-003	5600	Benzo(k)fluoranthene	8270D	Approved
BNAs in Soil	SPE-003	5610	Benzoic acid	8270D	Approved
BNAs in Soil	SPE-003	5630	Benzyl alcohol	8270D	Approved
BNAs in Soil	SPE-003	5760	bis(2-Chloroethoxy)methane	8270D	Approved
BNAs in Soil	SPE-003	5765	bis(2-Chloroethyl) ether	8270D	Approved
BNAs in Soil	SPE-003	5780	bis(2-Chloroisopropyl) ether	8270D	Approved
BNAs in Soil	SPE-003	6255	bis(2-Ethylhexyl) phthalate (DEHP)	8270D	Approved
BNAs in Soil	SPE-003	5670	Butyl benzyl phthalate	8270D	Approved
BNAs in Soil	SPE-003	5680	Carbazole	8270D	Approved
BNAs in Soil	SPE-003	5855	Chrysene	8270D	Approved
BNAs in Soil	SPE-003	5895	Dibenz(a,h) anthracene	8270D	Approved
BNAs in Soil	SPE-003	5905	Dibenzofuran	8270D	Approved
BNAs in Soil	SPE-003	6070	Diethyl phthalate	8270D	Approved
BNAs in Soil	SPE-003	6135	Dimethyl phthalate	8270D	Approved
BNAs in Soil	SPE-003	5925	Di-n-butyl phthalate	8270D	Approved
BNAs in Soil	SPE-003	6200	Di-n-octyl phthalate	8270D	Approved
BNAs in Soil	SPE-003	6265	Fluoranthene	8270D	Approved
BNAs in Soil	SPE-003	6270	Fluorene	8270D	Approved
BNAs in Soil	SPE-003	6275	Hexachlorobenzene	8270D	Approved
BNAs in Soil	SPE-003	4835	Hexachlorobutadiene	8270D	Approved
BNAs in Soil	SPE-003	6285	Hexachlorocyclopentadiene	8270D	Approved
BNAs in Soil	SPE-003	4840	Hexachloroethane	8270D	Approved
BNAs in Soil	SPE-003	6315	Indeno(1,2,3-cd) pyrene	8270D	Approved
BNAs in Soil	SPE-003	6320	Isophorone	8270D	Approved
BNAs in Soil	SPE-003	5005	Naphthalene	8270D	Approved
BNAs in Soil	SPE-003	5015	Nitrobenzene	8270D	Approved
BNAs in Soil	SPE-003	6530	n-Nitrosodimethylamine	8270D	Approved
BNAs in Soil	SPE-003	6545	n-Nitroso-di-n-propylamine	8270D	Approved
BNAs in Soil	SPE-003	6535	n-Nitrosodiphenylamine	8270D	Approved
BNAs in Soil	SPE-003	6605	Pentachlorophenol	8270D	Approved
BNAs in Soil	SPE-003	6615	Phenanthrene	8270D	Approved
BNAs in Soil	SPE-003	6625	Phenol	8270D	Approved
BNAs in Soil	SPE-003	6665	Pyrene	8270D	Approved
BNAs in Soil	SPE-003	5095	Pyridine	8270D	Approved
PAHs - Solids	SPE-017	5005	Naphthalene	8270DSIM	Approved
PAHs - Solids	SPE-017	5500	Acenaphthene	8270DSIM	Approved
PAHs - Solids	SPE-017	5505	Acenaphthylene	8270DSIM	Approved
PAHs - Solids	SPE-017	5555	Anthracene	8270DSIM	Approved
PAHs - Solids	SPE-017	5575	Benzo(a)anthracene	8270DSIM	Approved
PAHs - Solids	SPE-017	5580	Benzo(a)pyrene	8270DSIM	Approved
PAHs - Solids	SPE-017	5585	Benzo(b)fluoranthene	8270DSIM	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
PAHs - Solids	SPE-017	5590	Benzo(g,h,I)perylene	8270DSIM	Approved
PAHs - Solids	SPE-017	5600	Benzo(k)fluoranthene	8270DSIM	Approved
PAHs - Solids	SPE-017	5855	Chrysene	8270DSIM	Approved
PAHs - Solids	SPE-017	5895	Dibenzo(a,h)anthracene	8270DSIM	Approved
PAHs - Solids	SPE-017	6265	Fluoranthene	8270DSIM	Approved
PAHs - Solids	SPE-017	6270	Fluorene	8270DSIM	Approved
PAHs - Solids	SPE-017	6315	Indeno(1,2,3-cd) pyrene	8270DSIM	Approved
PAHs - Solids	SPE-017	6385	2-Methylnaphthalene	8270DSIM	Approved
PAHs - Solids	SPE-017	6615	Phenanthrene	8270DSIM	Approved
PAHs - Solids	SPE-017	6665	Pyrene	8270DSIM	Approved
Dioxins and Furans in Soil	SPE-016	9612	2,3,7,8-TCDD	8290	Approved
Dioxins and Furans in Soil	SPE-016	9606	PCDD + PCDF, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9992	PCDD, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9615	TCDD, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9519	1,2,3,4,6,7,8,9-OCDD	8290	Approved
Dioxins and Furans in Soil	SPE-016	9516	1,2,3,4,6,7,8,9-OCDF	8290	Approved
Dioxins and Furans in Soil	SPE-016	9426	1,2,3,4,6,7,8-Hpcdd	8290	Approved
Dioxins and Furans in Soil	SPE-016	9420	1,2,3,4,6,7,8-Hpcdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9423	1,2,3,4,7,8,9-Hpcdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9453	1,2,3,4,7,8-Hxcdd	8290	Approved
Dioxins and Furans in Soil	SPE-016	9471	1,2,3,4,7,8-Hxcdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9456	1,2,3,6,7,8-Hxcdd	8290	Approved
Dioxins and Furans in Soil	SPE-016	9474	1,2,3,6,7,8-Hxcdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9459	1,2,3,7,8,9-Hxcdd	8290	Approved
Dioxins and Furans in Soil	SPE-016	9477	1,2,3,7,8,9-Hxcdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9540	1,2,3,7,8-Pecdd	8290	Approved
Dioxins and Furans in Soil	SPE-016	9543	1,2,3,7,8-Pecdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9480	2,3,4,6,7,8-Hxcdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9549	2,3,4,7,8-Pecdf	8290	Approved
Dioxins and Furans in Soil	SPE-016	9606	2,3,7,8-TCDD	8290	Approved
Dioxins and Furans in Soil	SPE-016	9989	2,3,7,8-TCDF	8290	Approved
Dioxins and Furans in Soil	SPE-016	9438	Hpcdd, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9444	Hpcdf, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9468	Hxcdd, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9483	Hxcdf, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9992	PCDD + PCDF, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9991	PCDD, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9993	PCDF, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9555	Pecdd, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9552	Pecdf, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9989	TCDD, total	8290	Approved
Dioxins and Furans in Soil	SPE-016	9991	TCDF, total	8290	Approved
RCRA Carbamates	38158	7710	3-Hydroxycarbofuran	8321A	Approved
RCRA Carbamates	38158	7010	Aldicarb	8321A	Approved
RCRA Carbamates	38158	7015	Aldicarb sulfone	8321A	Approved
RCRA Carbamates	38158	7020	Aldicarb sulfoxide	8321A	Approved
RCRA Carbamates	38158	8080	Baygon (Propoxur)	8321A	Approved
RCRA Carbamates	38158	7195	Carbaryl	8321A	Approved
RCRA Carbamates	38158	7205	Carbofuran	8321A	Approved
RCRA Carbamates	38158	9384	Dioxacarb	8321A	Approved
RCRA Carbamates	38158	7505	Diuron	8321A	Approved
RCRA Carbamates	38158	7800	Methiocarb	8321A	Approved
RCRA Carbamates	38158	7805	Methomyl	8321A	Approved
RCRA Carbamates	38158	8025	Promecarb	8321A	Approved
RCRA Nitroaromatics in Soil	38155	6885	1,3,5-Trinitrobenzene	8330	Approved
RCRA Nitroaromatics in Soil	38155	6160	1,3-Dinitrobenzene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9651	2,4,6-Trinitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	6185	2,4-Dinitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	6190	2,6-Dinitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9303	2-Amino-4,6-dinitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9507	2-Nitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9510	3-Nitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9306	4-Amino-2,6-dinitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9513	4-Nitrotoluene	8330	Approved
RCRA Nitroaromatics in Soil	38155	9522	HMX	8330	Approved
RCRA Nitroaromatics in Soil	38155	5015	Nitrobenzene	8330	Approved

Accredited Analytes/Methods

SOIL Proficiency Testing Summary

Lab Name : APPL, Inc.

City/State : Clovis, CA

PartName	PartNumber	NELACCode	AnalyteName	EPA Method	PT Results
NPTA			Nitroglycerin	8330	Approved
NPTA			PGDN	8330	Approved
NPTA			Picric Acid	8330	Approved
NPTA			PETN	8330	Approved
RCRA Nitroaromatics in Soil	38155	9432	RDX	8330	Approved
RCRA Nitroaromatics in Soil	38155	6415	Tetryl	8330	Approved
RCRA Nitroaromatics in Soil	38155	6885	1,3,5-Trinitrobenzene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	6160	1,3-Dinitrobenzene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9651	2,4,6-Trinitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	6185	2,4-Dinitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	6190	2,6-Dinitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9303	2-Amino-4,6-dinitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9507	2-Nitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9510	3-Nitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9306	4-Amino-2,6-dinitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9513	4-Nitrotoluene	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9522	HMX	8330A	Approved
RCRA Nitroaromatics in Soil	38155	5015	Nitrobenzene	8330A	Approved
NPTA			Nitroglycerin	8330A	Approved
NPTA			PGDN	8330A	Approved
NPTA			Picric Acid	8330A	Approved
NPTA			PETN	8330A	Approved
RCRA Nitroaromatics in Soil	38155	9432	RDX	8330A	Approved
RCRA Nitroaromatics in Soil	38155	6415	Tetryl	8330A	Approved
RCRA Nitroaromatics in Soil	38155	6885	1,3,5-Trinitrobenzene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	6160	1,3-Dinitrobenzene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9651	2,4,6-Trinitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9185	2,4-Dinitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	6190	2,6-Dinitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9303	2-Amino-4,6-dinitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9507	2-Nitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9510	3-Nitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9306	4-Amino-2,6-dinitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9513	4-Nitrotoluene	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9522	HMX	8330B	Approved
RCRA Nitroaromatics in Soil	38155	5015	Nitrobenzene	8330B	Approved
NPTA			Nitroglycerin	8330B	Approved
NPTA			PGDN	8330B	Approved
NPTA			Picric Acid	8330B	Approved
NPTA			PETN	8330B	Approved
RCRA Nitroaromatics in Soil	38155	9432	RDX	8330B	Approved
RCRA Nitroaromatics in Soil	38155	6415	Tetryl	8330B	Approved
RCRA Cyanide	55105	1645	Cyanide	9010B	Approved
RCRA Cyanide	55105	1645	Cyanide	9010C	Approved
RCRA Cyanide	55105	1645	Cyanide	9014	Approved
RCRA Corrosivity - pH Determination	55127	1625	Corrosivity	9045C	Approved
RCRA Corrosivity - pH Determination	55127	1625	Corrosivity	9045D	Approved
RCRA Anions	55141	1541	Bromide (Br)	9056	Approved
RCRA Anions	55141	1576	Chloride (Cl)	9056	Approved
RCRA Anions	55141	1731	Fluoride (F)	9056	Approved
RCRA Anions	55141	1811	Nitrate as N (NO3- as N)	9056	Approved
RCRA Anions	55141	1871	Phosphate as P (PO43- as P)	9056	Approved
RCRA Anions	55141	2001	Sulfate (SO42-)	9056	Approved
RCRA Anions	55141	1540	Bromide (Br)	9056A	Approved
RCRA Anions	55141	1575	Chloride (Cl)	9056A	Approved
RCRA Anions	55141	1730	Fluoride (F)	9056A	Approved
RCRA Anions	55141	1810	Nitrate as N (NO3- as N)	9056A	Approved
RCRA Anions	55141	1870	Phosphate as P (PO43- as P)	9056A	Approved
RCRA Anions	55141	2000	Sulfate (SO42-)	9056A	Approved
RCRA Nutrients	55142	2040	TOC	Walkley Black	Approved
Nutrients	PEO-014	2040	TOC	Walkley Black	Approved

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LABORATORY ACCREDITATION BUREAU

11617 Coldwater Road, Suite 101
Fort Wayne, IN 46845
Tel: (260) 637-2705
Fax: (260) 637-2791
www.L-A-B.com

November 14, 2011

ALS Environmental d.b.a. ALS Laboratory Group
Bob DiRienzo
225 Commerce Drive
Fort Collins, CO 80524

Dear Mr. DiRienzo:

Congratulations on completing your Type II Surveillance, by Laboratory Accreditation Bureau. Evidence provided has been accepted during our technical review and will be verified for its effective implementation during our next assessment. Enclosed you will find the scope for your location numbered **L2257**. The field of approval is **Testing**.

The information pertaining to your company and accreditation to ISO/IEC 17025:2005 is listed on our website, www.l-a-b.com. Your scope of accreditation is linked to our directory illustrating your accomplished technical competence in the fields accredited.

Again we look forward to continuing a long and successful relationship with your company.

Sincerely,

R. Douglas Leonard
Managing Director
Chief Technical Officer

Enclosure: Scope of Accreditation

LABORATORY ACCREDITATION BUREAU

Certificate # L2257

Scope of Accreditation For ALS Environmental d.b.a. ALS Laboratory Group

225 Commerce Drive
Fort Collins, CO 80524
Robert P. DiRienzo
970-490-1511

In recognition of a successful assessment to ISO/IEC 17025:2005 and the requirements of the DoD Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in the DoD Quality Systems Manual for Environmental Laboratories (DoD QSM v4.2) based on the National Environmental Laboratory Accreditation Conference Chapter 5 Quality Systems Standard (NELAC Voted Revision June 5, 2003), accreditation is granted to ALS Laboratory Group to perform the following tests:

Accreditation granted through: **June 1, 2013**

Testing – Environmental

Non-Potable Water		
Technology	**Method**	**Analyte**
Ion Chromatography	EPA 300.0 / 9056A	Bromide
Ion Chromatography	EPA 300.0 / 9056A	Chloride
Ion Chromatography	EPA 300.0 / 9056A	Fluoride
Ion Chromatography	EPA 300.0 / 9056A	Nitrate as N
Ion Chromatography	EPA 300.0 / 9056A	Nitrite as N
Ion Chromatography	EPA 300.0 / 9056A	Orthophosphate as P
Ion Chromatography	EPA 300.0 / 9056A	Sulfate
HPLC / EI / MS/MS	EPA 6850	Perchlorate
Analyzer	EPA 415.1 / 9060	TOC
ICP	EPA 6010B	Aluminum
ICP	EPA 6010B	Antimony
ICP	EPA 6010B	Arsenic
ICP	EPA 6010B	Barium
ICP	EPA 6010B	Beryllium
ICP	EPA 6010B	Bismuth
ICP	EPA 6010B	Boron
ICP	EPA 6010B	Cadmium

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Non-Potable Water		
Technology	**Method**	**Analyte**
ICP	EPA 6010B	Calcium
ICP	EPA 6010B	Chromium
ICP	EPA 6010B	Cobalt
ICP	EPA 6010B	Copper
ICP	EPA 6010B	Iron
ICP	EPA 6010B	Lead
ICP	EPA 6010B	Lithium
ICP	EPA 6010B	Magnesium
ICP	EPA 6010B	Manganese
ICP	EPA 6010B	Molybdenum
ICP	EPA 6010B	Nickel
ICP	EPA 6010B	Phosphorus
ICP	EPA 6010B	Potassium
ICP	EPA 6010B	Selenium
ICP	EPA 6010B	Silicon
ICP	EPA 6010B	Silicon as SiO_2
ICP	EPA 6010B	Silver
ICP	EPA 6010B	Sodium
ICP	EPA 6010B	Strontium
ICP	EPA 6010B	Sulfur
ICP	EPA 6010B	Thallium
ICP	EPA 6010B	Tin
ICP	EPA 6010B	Titanium
ICP	EPA 6010B	Uranium
ICP	EPA 6010B	Vanadium
ICP	EPA 6010B	Zinc
ICP	EPA 6010B	Zirconium
ICP / MS	EPA 6020A	Aluminum
ICP / MS	EPA 6020A	Antimony
ICP / MS	EPA 6020A	Arsenic
ICP / MS	EPA 6020A	Barium
ICP / MS	EPA 6020A	Beryllium
ICP / MS	EPA 6020A	Cadmium

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Non-Potable Water		
Technology	**Method**	**Analyte**
ICP / MS	EPA 6020A	Calcium
ICP / MS	EPA 6020A	Cerium
ICP / MS	EPA 6020A	Chromium
ICP / MS	EPA 6020A	Cobalt
ICP / MS	EPA 6020A	Copper
ICP / MS	EPA 6020A	Iron
ICP / MS	EPA 6020A	Lanthanum
ICP / MS	EPA 6020A	Lead
ICP / MS	EPA 6020A	Magnesium
ICP / MS	EPA 6020A	Manganese
ICP / MS	EPA 6020A	Molybdenum
ICP / MS	EPA 6020A	Neodymium
ICP / MS	EPA 6020A	Nickel
ICP / MS	EPA 6020A	Potassium
ICP / MS	EPA 6020A	Praseodymium
ICP / MS	EPA 6020A	Selenium
ICP / MS	EPA 6020A	Silver
ICP / MS	EPA 6020A	Sodium
ICP / MS	EPA 6020A	Strontium
ICP / MS	EPA 6020A	Thallium
ICP / MS	EPA 6020A	Thorium
ICP / MS	EPA 6020A	Tin
ICP / MS	EPA 6020A	Titanium
ICP / MS	EPA 6020A	U-235
ICP / MS	EPA 6020A	U-238
ICP / MS	EPA 6020A	Uranium
ICP / MS	EPA 6020A	Vanadium
ICP / MS	EPA 6020A	Yttrium
ICP / MS	EPA 6020A	Zinc
Colorimetric	EPA 335.1 SM 4500-CN C,E	Cyanide (Total and Amenable)
UV-Vis	EPA 9010C	Cyanide (Total and Amenable)
UV-Vis	EPA 7196A	Hexavalent Chromium (Cr^{VI})
Titrimetric	EPA 9013 / 9014 / 335.2	Cyanide

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Certificate # L2257

Non-Potable Water

Technology	Method	Analyte
Gravimetric	EPA 160.1/SM 2540 C	Total Dissolved Solids
Gravimetric	EPA 160.2 / SM 2540 D	Total Suspended Solids
Gravimetric	EPA 1664A / 9071B	HEM/Oil And Grease
ISE	SM 2510B EPA 120.1 / 9050A	Conductivity
Titration	SM 2320B EPA 310.1	Alkalinity
UV/VIS	EPA 353.2	Nitrogen, Nitrate-Nitrite
Colorimetric	EPA 354.1 SM 4500-NO2 B	Nitrogen, Nitrite
Colorimetric	EPA 365.2 SM 4500-P E	Phosphorous, Total And Ortho
Titrimetric	EPA 376.1 SM 4500-S2 F	Sulfide
Gravimetric	EPA 9095A	Paint Filter Liquids Test
CVAA	EPA 245.1 / 7470	Mercury
ISE	EPA 150.1 / 9040C SM 4500-H+ B	pH
Flash Point	EPA 1010A	Ignitability
GC / ECD	EPA 8081A	4,4'-DDD
GC / ECD	EPA 8081A	4,4'-DDE
GC / ECD	EPA 8081A	4,4'-DDT
GC / ECD	EPA 8081A	Aldrin
GC / ECD	EPA 8081A	Alpha-BHC
GC / ECD	EPA 8081A	Alpha-Chlordane
GC / ECD	EPA 8081A	Beta-BHC
GC / ECD	EPA 8081A	Chlordane
GC / ECD	EPA 8081A	Delta-BHC
GC / ECD	EPA 8081A	Dieldrin
GC / ECD	EPA 8081A	Endosulfan I
GC / ECD	EPA 8081A	Endosulfan II
GC / ECD	EPA 8081A	Endosulfan Sulfate
GC / ECD	EPA 8081A	Endrin
GC / ECD	EPA 8081A	Endrin Aldehyde
GC / ECD	EPA 8081A	Endrin Ketone
GC / ECD	EPA 8081A	Gamma-BHC (Lindane)

Non-Potable Water		
Technology	**Method**	**Analyte**
GC / ECD	EPA 8081A	Gamma-Chlordane
GC / ECD	EPA 8081A	Heptachlor
GC / ECD	EPA 8081A	Heptachlor Epoxide
GC / ECD	EPA 8081A	Methoxychlor
GC / ECD	EPA 8081A	Toxaphene
GC / ECD	EPA 8082	Aroclor-1016
GC / ECD	EPA 8082	Aroclor-1221
GC / ECD	EPA 8082	Aroclor-1232
GC / ECD	EPA 8082	Aroclor-1242
GC / ECD	EPA 8082	Aroclor-1248
GC / ECD	EPA 8082	Aroclor-1254
GC / ECD	EPA 8082	Aroclor-1260
GC / ECD	EPA 8082	Aroclor-1262
GC / ECD	EPA 8082	Aroclor-1268
GC / ECD	EPA 8151A	2,4,5-T
GC / ECD	EPA 8151A	2,4-D
GC / ECD	EPA 8151A	2,4-DB
GC / ECD	EPA 8151A	Dalapon
GC / ECD	EPA 8151A	Dicamba
GC / ECD	EPA 8151A	Dichloroprop
GC / ECD	EPA 8151A	Dinoseb
GC / ECD	EPA 8151A	MCPA
GC / ECD	EPA 8151A	MCPP
GC / ECD	EPA 8151A	Silvex
GC / FPD	EPA 8141A	Chlorpyrifos
GC / FPD	EPA 8141A	Coumaphos
GC / FPD	EPA 8141A	Demeton O + S
GC / FPD	EPA 8141A	Diazinon
GC / FPD	EPA 8141A	Dichlorvos
GC / FPD	EPA 8141A	Disulfoton
GC / FPD	EPA 8141A	Ethoprop
GC / FPD	EPA 8141A	Fensulfothion
GC / FPD	EPA 8141A	Fenthion

Non-Potable Water		
Technology	**Method**	**Analyte**
GC / FPD	EPA 8141A	Malathion
GC / FPD	EPA 8141A	Merphos A + B
GC / FPD	EPA 8141A	Methyl Azinphos
GC / FPD	EPA 8141A	Methyl Parathion
GC / FPD	EPA 8141A	Mevinphos
GC / FPD	EPA 8141A	Naled
GC / FPD	EPA 8141A	Phorate
GC / FPD	EPA 8141A	Ronnel
GC / FPD	EPA 8141A	Sulprofos
GC / FPD	EPA 8141A	Tetrachlorvinphos
GC / FPD	EPA 8141A	Tokuthion
GC / FPD	EPA 8141A	Trichloronate
GC / FPD	EPA 8141A	Triphenylphosphate
GC / FID	EPA 8015B	GRO
GC / FID	EPA 8015B	DRO
HPLC / UV	EPA 8330 / 8330B	1,3,5-Trinitrobenzene
HPLC / UV	EPA 8330 / 8330B	1,3-Dinitrobenzene
HPLC / UV	EPA 8330 / 8330B	2,4,6-Trinitrotoluene
HPLC / UV	EPA 8330 / 8330B	2,4-Dinitrotoluene
HPLC / UV	EPA 8330 / 8330B	2,6-Dinitrotoluene
HPLC / UV	EPA 8330 / 8330B	2-Amino-4,6-DNT
HPLC / UV	EPA 8330 / 8330B	2-Nitrotoluene
HPLC / UV	EPA 8330 / 8330B	3,5-Dinitroaniline
HPLC / UV	EPA 8330 / 8330B	3-Nitrotoluene
HPLC / UV	EPA 8330 / 8330B	4-Amino-2,6-DNT
HPLC / UV	EPA 8330 / 8330B	4-Nitrotoluene
HPLC / UV	EPA 8330 / 8330B	HMX
HPLC / UV	EPA 8330 / 8330B	Nitrobenzene
HPLC / UV	EPA 8330B	Nitroglycerin
HPLC / UV	EPA 8330B	PETN
HPLC / UV	EPA 8330 / 8330B	RDX
HPLC / UV	EPA 8330 / 8330B	Tetryl
GC / MS	EPA 8260C	1,1,1,2-Tetrachloroethane

Non-Potable Water		
Technology	**Method**	**Analyte**
GC / MS	EPA 8260C	1,1,1-Trichloroethane
GC / MS	EPA 8260C	1,1,2,2-Tetrachloroethane
GC / MS	EPA 8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane
GC / MS	EPA 8260C	1,1,2-Trichloroethane
GC / MS	EPA 8260C	1,1-Dichloroethane
GC / MS	EPA 8260C	1,1-Dichloroethene
GC / MS	EPA 8260C	1,1-Dichloropropene
GC / MS	EPA 8260C	1,2,3-Trichlorobenzene
GC / MS	EPA 8260C	1,2,3-Trichloropropane
GC / MS	EPA 8260C	1,2,4-Trichlorobenzene
GC / MS	EPA 8260C	1,2,4-Trimethylbenzene
GC / MS	EPA 8260C	1,2-Dibromo-3-Chloropropane
GC / MS	EPA 8260C	1,2-Dibromoethane
GC / MS	EPA 8260C	1,2-Dichlorobenzene
GC / MS	EPA 8260C	1,2-Dichloroethane
GC / MS	EPA 8260C	1,2-Dichloroethene (Total)
GC / MS	EPA 8260C	1,2-Dichloropropane
GC / MS	EPA 8260C	1,3,5-Trimethylbenzene
GC / MS	EPA 8260C	1,3-Dichlorobenzene
GC / MS	EPA 8260C	1,3-Dichloropropane
GC / MS	EPA 8260C	1,4-Dichlorobenzene
GC / MS	EPA 8260C	1-Chlorohexane
GC / MS	EPA 8260C	2,2-Dichloropropane
GC / MS	EPA 8260C	2-Butanone
GC / MS	EPA 8260C	2-Chlorotoluene
GC / MS	EPA 8260C	2-Hexanone
GC / MS	EPA 8260C	4-Chlorotoluene
GC / MS	EPA 8260C	4-Methyl-2-Pentanone
GC / MS	EPA 8260C	Acetone
GC / MS	EPA 8260C	Benzene
GC / MS	EPA 8260C	Bromobenzene
GC / MS	EPA 8260C	Bromochloromethane
GC / MS	EPA 8260C	Bromodichloromethane

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Non-Potable Water		
Technology	**Method**	**Analyte**
GC / MS	EPA 8260C	Bromoform
GC / MS	EPA 8260C	Bromomethane
GC / MS	EPA 8260C	Carbon Disulfide
GC / MS	EPA 8260C	Carbon Tetrachloride
GC / MS	EPA 8260C	Chlorobenzene
GC / MS	EPA 8260C	Chloroethane
GC / MS	EPA 8260C	Chloroform
GC / MS	EPA 8260C	Chloromethane
GC / MS	EPA 8260C	Cis-1,2-Dichloroethene
GC / MS	EPA 8260C	Cis-1,3-Dichloropropene
GC / MS	EPA 8260C	Dibromochloromethane
GC / MS	EPA 8260C	Dibromomethane
GC / MS	EPA 8260C	Dichlorodifluoromethane
GC / MS	EPA 8260C	Ethylbenzene
GC / MS	EPA 8260C	Hexachlorobutadiene
GC / MS	EPA 8260C	Iodomethane
GC / MS	EPA 8260C	Isopropylbenzene
GC / MS	EPA 8260C	M+P-Xylene
GC / MS	EPA 8260C	Methyl Tertiary Butyl Ether
GC / MS	EPA 8260C	Methylene Chloride
GC / MS	EPA 8260C	Naphthalene
GC / MS	EPA 8260C	N-Butylbenzene
GC / MS	EPA 8260C	N-Propylbenzene
GC / MS	EPA 8260C	O-Xylene
GC / MS	EPA 8260C	P-Isopropyltoluene
GC / MS	EPA 8260C	Sec-Butylbenzene
GC / MS	EPA 8260C	Styrene
GC / MS	EPA 8260C	Tert-Butylbenzene
GC / MS	EPA 8260C	Tetrachloroethene
GC / MS	EPA 8260C	Toluene
GC / MS	EPA 8260C	Total Xylenes
GC / MS	EPA 8260C	Trans-1,2-Dichloroethene
GC / MS	EPA 8260C	Trans-1,3-Dichloropropene

Non-Potable Water		
Technology	**Method**	**Analyte**
GC / MS	EPA 8260C	Trichloroethene
GC / MS	EPA 8260C	Trichlorofluoromethane
GC / MS	EPA 8260C	Vinyl Acetate
GC / MS	EPA 8260C	Vinyl Chloride
GC / MS	EPA 8270D	1,2,4-Trichlorobenzene
GC / MS	EPA 8270D	1,2-Dichlorobenzene
GC / MS	EPA 8270D	1,3-Dichlorobenzene
GC / MS	EPA 8270D	1,4-Dichlorobenzene
GC / MS	EPA 8270D	1,4-Dioxane
GC / MS	EPA 8270D	2,3,4,6-Tetrachlorophenol
GC / MS	EPA 8270D	2,4,5-Trichlorophenol
GC / MS	EPA 8270D	2,4,6-Trichlorophenol
GC / MS	EPA 8270D	2,4-Dichlorophenol
GC / MS	EPA 8270D	2,4-Dimethylphenol
GC / MS	EPA 8270D	2,4-Dinitrophenol
GC / MS	EPA 8270D	2,4-Dinitrotoluene
GC / MS	EPA 8270D	2,6-Dinitrotoluene
GC / MS	EPA 8270D	2-Chloronaphthalene
GC / MS	EPA 8270D	2-Chlorophenol
GC / MS	EPA 8270D	2-Methylnaphthalene
GC / MS	EPA 8270D	2-Methylphenol
GC / MS	EPA 8270D	2-Nitroaniline
GC / MS	EPA 8270D	2-Nitrophenol
GC / MS	EPA 8270D	3,3'-Dichlorobenzidine
GC / MS	EPA 8270D	3+4-Methylphenol
GC / MS	EPA 8270D	4,6-Dinitro-2-Methylphenol
GC / MS	EPA 8270D	4-Aminobiphenyl
GC / MS	EPA 8270D	4-Bromophenyl Phenyl Ether
GC / MS	EPA 8270D	4-Chloro-3-Methylphenol
GC / MS	EPA 8270D	4-Chloroaniline
GC / MS	EPA 8270D	4-Chlorophenyl Phenyl Ether
GC / MS	EPA 8270D	4-Nitroaniline
GC / MS	EPA 8270D	4-Nitrophenol

Non-Potable Water		
Technology	**Method**	**Analyte**
GC / MS	EPA 8270D	Acenaphthene
GC / MS	EPA 8270D	Acenaphthylene
GC / MS	EPA 8270D	Aniline
GC / MS	EPA 8270D	Anthracene
GC / MS	EPA 8270D	Azobenzene
GC / MS	EPA 8270D	Benzo(A)Anthracene
GC / MS	EPA 8270D	Benzo(A)Pyrene
GC / MS	EPA 8270D	Benzo(B)Fluoranthene
GC / MS	EPA 8270D	Benzo(G,H,I)Perylene
GC / MS	EPA 8270D	Benzo(K)Fluoranthene
GC / MS	EPA 8270D	Benzoic Acid
GC / MS	EPA 8270D	Benzyl Alcohol
GC / MS	EPA 8270D	Bis(2-Chloroethoxy)Methane
GC / MS	EPA 8270D	Bis(2-Chloroisopropyl)Ether
GC / MS	EPA 8270D	Bis(2-Ethylhexyl)Phthalate
GC / MS	EPA 8270D	Butyl Benzyl Phthalate
GC / MS	EPA 8270D	Carbazole
GC / MS	EPA 8270D	Chrysene
GC / MS	EPA 8270D	Dibenzo(A,H)Anthracene
GC / MS	EPA 8270D	Dibenzofuran
GC / MS	EPA 8270D	Diethyl Phthalate
GC / MS	EPA 8270D	Dimethyl Phthalate
GC / MS	EPA 8270D	Di-N-Butyl Phthalate
GC / MS	EPA 8270D	Di-N-Octyl Phthalate
GC / MS	EPA 8270D	Fluoranthene
GC / MS	EPA 8270D	Fluorene
GC / MS	EPA 8270D	Hexachlorobenzene
GC / MS	EPA 8270D	Hexachlorobutadiene
GC / MS	EPA 8270D	Hexachlorocyclopentadiene
GC / MS	EPA 8270D	Hexachloroethane
GC / MS	EPA 8270D	Indeno(1,2,3-Cd)Pyrene
GC / MS	EPA 8270D	Isophorone
GC / MS	EPA 8270D	Naphthalene

Non-Potable Water		
Technology	**Method**	**Analyte**
GC / MS	EPA 8270D	Nitrobenzene
GC / MS	EPA 8270D	N-Nitrosodimethylamine
GC / MS	EPA 8270D	N-Nitroso-Di-N-Propylamine
GC / MS	EPA 8270D	N-Nitrosodiphenylamine
GC / MS	EPA 8270D	Pentachlorophenol
GC / MS	EPA 8270D	Phenanthrene
GC / MS	EPA 8270D	Phenol
GC / MS	EPA 8270D	Pyrene
GC / MS	EPA 8270D	Pyridine
Gas Proportional Counting	EPA 900 / 9310	Gross Alpha
Gas Proportional Counting	EPA 900 / 9310	Gross Beta
Gas Proportional Counting	EPA 904 / 9320	Ra228
Gas Proportional Counting	HASL300Sr01 / Sr02	Strontium 89/90
Gas Proportional Counting	ASTM D5811	Strontium 90
Gas Proportional Counting	EPA 902.0 ALS SOP 753	Iodine-129
Liquid Scintillation Counting	EPA 906.0 SM 7500 3H	Tritium
Liquid Scintillation Counting	EPA C-01	Carbon-14
Liquid Scintillation Counting	DOE RP550 / RS551	Technicium-99
Liquid Scintillation Counting	Horwitz, Chiariza, Dietz 1992	Lead-210
Liquid Scintillation Counting	ALS SOP 704	Pu241, Pm147
Liquid Scintillation Counting	ALS SOP 774	Nickle-63
Emanation	EPA 903.1 SM 7500-Ra C	Radium 226
Gas Proportional Counting	EPA 903.0 / 9315	Total Radium
Liquid Scintillation Counting	SM 7500-Rn B ASTM D 5072	Rn-222
Gas Proportional Counting	EPA 903.0 / 9315	Radium-226
Alpha-Spec	HASL 300 U02 ASTM D 3972	Ac-227
Alpha-Spec	HASL 300 U02 ASTM D 3972	Am-241
Alpha-Spec	HASL 300 U02 ASTM D 3972	Am-242/243
Alpha-Spec	HASL 300 U02 ASTM D 3972	Am-243

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Non-Potable Water		
Technology	**Method**	**Analyte**
Alpha-Spec	HASL 300 U02 ASTM D 3972	Cm-242
Alpha-Spec	HASL 300 U02 ASTM D 3972	Cm-243/244
Alpha-Spec	HASL 300 U02 ASTM D 3972	Cm-244
Alpha-Spec	HASL 300 U02 ASTM D 3972	Cm-245/246
Alpha-Spec	HASL 300 U02 ASTM D 3972	Np-237
Alpha-Spec	HASL 300 U02 ASTM D 3972	Po-210
Alpha-Spec	HASL 300 U02 ASTM D 3972	Pu-238
Alpha-Spec	HASL 300 U02 ASTM D 3972	Pu-239
Alpha-Spec	HASL 300 U02 ASTM D 3972	Pu-239/240
Alpha-Spec	HASL 300 U02 ASTM D 3972	Pu-242
Alpha-Spec	ALS-SOP 701	Ra-226
Alpha-Spec	HASL 300 U02 ASTM D 3972	Th-227
Alpha-Spec	HASL 300 U02 ASTM D 3972	Th-228
Alpha-Spec	HASL 300 U02 ASTM D 3972	Th-230
Alpha-Spec	HASL 300 U02 ASTM D 3972	Th-232
Alpha-Spec	HASL 300 U02 ASTM D 3972	U-232
Alpha-Spec	HASL 300 U02 ASTM D 3972	U-233/234
Alpha-Spec	HASL 300 U02 ASTM D 3972	U-234
Alpha-Spec	HASL 300 U02 ASTM D 3972	U-235
Alpha-Spec	HASL 300 U02 ASTM D 3972	U-235/236
Alpha-Spec	HASL 300 U02 ASTM D 3972	U-238

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Non-Potable Water		
Technology	**Method**	**Analyte**
Alpha-Spec	HASL 300 U02 ASTM D 3972	Uranium, Total
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ac-227
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ac-228
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ag-108m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ag-110m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Al-26
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Am-241
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Am-243
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	As-72
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	As-73
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	As-74
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ba-133
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ba-140
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Be-7

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Bi-211
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Bi-212
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Bi-214
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Br-76
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Br-77
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Br-82
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cd-109
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ce-139
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ce-141
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ce-144
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cf-249
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cf-251
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cl-39
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	CM-243

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-56
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-57
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-58
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-60
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cr-51
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-134
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-135
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-136
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-137
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Eu-152
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Eu-154
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Eu-155
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Fe-59
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Gd-153

Non-Potable Water

Technology	Method	Analyte
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ge-68
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Hf-181
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Hg-197m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Hg-203
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	I-131
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ir-192
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	K-40
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Kr-85
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	La-140
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Mn-54
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Na-22
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Na-24
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Nb-94
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Nb-95

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Nd-147
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Np-236
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Np-237
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Np-239
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Os-191
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pa-231
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pa-234m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-210
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-211
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-212
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-214
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pm-144
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pm-146
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Po-209

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-223
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-224
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-226
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-228
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rb-83
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rb-86
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rh-101
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rh-106
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ru-103
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ru-106
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sb-124
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sb-125
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sc-46
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Se-75

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sn-113
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sn-126
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sr-85
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ta-182
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Tb-160
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-227
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-228
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-230
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-231
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-232
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-234
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Tl-208
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	U-235
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Uranium, Total

Non-Potable Water		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	V-48
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Y-88
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Zn-65
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Zr-95
Preparation	**Method**	**Type**
Preparation	EPA 3005A	Acid Digestion Total Recoverable or Dissolved Metals
Preparation	EPA 3010A	Acid Digestion for Total Metals
Leaching Procedure	EPA 1311	Toxicity Characteristic Leaching Procedure Metals
Leaching Procedure	EPA 1311	Toxicity Characteristic Leaching Procedure Semi-Volatiles
Leaching Procedure	EPA 1311	Toxicity Characteristic Leaching Procedure Volatiles
Preparation	EPA 3520C	Continuous Liquid-Liquid Extraction
Cleanup Procedure	EPA 3620B	Florisil Cleanup
Cleanup Procedure	EPA 3630C	Silica Gel Cleanup
Cleanup Procedure	EPA 3640A	Gel Permeation Cleanup
Cleanup Procedure	EPA 3660A	Sulfur Cleanup
Purge and Trap	EPA 5030C	Purge-and-Trap for Aqueous Samples

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Ion Chromatography	EPA 300.0 / 9056A	Bromide
Ion Chromatography	EPA 300.0 / 9056A	Chloride
Ion Chromatography	EPA 300.0 / 9056A	Fluoride
Ion Chromatography	EPA 300.0 / 9056A	Nitrate as N
Ion Chromatography	EPA 300.0 / 9056A	Nitrite as N
Ion Chromatography	EPA 300.0 / 9056A	Orthophosphate as P

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Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Ion Chromatography	EPA 300.0 / 9056A	Sulfate
HPLC / EI / MS/MS	EPA 6850	Perchlorate
Analyzer	Whakley Black	TOC
ICP - AES	EPA 6010B	Aluminum
ICP - AES	EPA 6010B	Antimony
ICP - AES	EPA 6010B	Arsenic
ICP - AES	EPA 6010B	Barium
ICP - AES	EPA 6010B	Beryllium
ICP - AES	EPA 6010B	Bismuth
ICP - AES	EPA 6010B	Boron
ICP - AES	EPA 6010B	Cadmium
ICP - AES	EPA 6010B	Calcium
ICP - AES	EPA 6010B	Chromium
ICP - AES	EPA 6010B	Cobalt
ICP - AES	EPA 6010B	Copper
ICP - AES	EPA 6010B	Iron
ICP - AES	EPA 6010B	Lead
ICP - AES	EPA 6010B	Lithium
ICP - AES	EPA 6010B	Magnesium
ICP - AES	EPA 6010B	Manganese
ICP - AES	EPA 6010B	Molybdenum
ICP - AES	EPA 6010B	Nickel
ICP - AES	EPA 6010B	Phosphorus
ICP - AES	EPA 6010B	Potassium
ICP - AES	EPA 6010B	Selenium
ICP - AES	EPA 6010B	Silicon
ICP - AES	EPA 6010B	Silicon as SiO_2
ICP - AES	EPA 6010B	Silver
ICP - AES	EPA 6010B	Sodium
ICP - AES	EPA 6010B	Strontium
ICP - AES	EPA 6010B	Sulfur
ICP - AES	EPA 6010B	Thallium
ICP - AES	EPA 6010B	Tin

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
ICP - AES	EPA 6010B	Titanium
ICP - AES	EPA 6010B	Uranium
ICP - AES	EPA 6010B	Vanadium
ICP - AES	EPA 6010B	Zinc
ICP - AES	EPA 6010B	Zirconium
ICP / MS	EPA 6020A	Aluminum
ICP / MS	EPA 6020A	Antimony
ICP / MS	EPA 6020A	Arsenic
ICP / MS	EPA 6020A	Barium
ICP / MS	EPA 6020A	Beryllium
ICP / MS	EPA 6020A	Cadmium
ICP / MS	EPA 6020A	Calcium
ICP / MS	EPA 6020A	Cerium
ICP / MS	EPA 6020A	Chromium
ICP / MS	EPA 6020A	Cobalt
ICP / MS	EPA 6020A	Copper
ICP / MS	EPA 6020A	Iron
ICP / MS	EPA 6020A	Lanthanum
ICP / MS	EPA 6020A	Lead
ICP / MS	EPA 6020A	Magnesium
ICP / MS	EPA 6020A	Manganese
ICP / MS	EPA 6020A	Molybdenum
ICP / MS	EPA 6020A	Neodymium
ICP / MS	EPA 6020A	Nickel
ICP / MS	EPA 6020A	Potassium
ICP / MS	EPA 6020A	Praseodymium
ICP / MS	EPA 6020A	Selenium
ICP / MS	EPA 6020A	Silver
ICP / MS	EPA 6020A	Sodium
ICP / MS	EPA 6020A	Strontium
ICP / MS	EPA 6020A	Thallium
ICP / MS	EPA 6020A	Thorium
ICP / MS	EPA 6020A	Tin

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Solid and Chemical Materials		
Technology	**Method**	**Analyte**
ICP / MS	EPA 6020A	Titanium
ICP / MS	EPA 6020A	U-235
ICP / MS	EPA 6020A	U-238
ICP / MS	EPA 6020A	Uranium
ICP / MS	EPA 6020A	Vanadium
ICP / MS	EPA 6020A	Yttrium
ICP / MS	EPA 6020A	Zinc
CVAA	EPA 7471	Mercury
ISE	EPA 9045D	pH
Titrimetric	EPA 9013 / 9014	Cyanide
UV-Vis	EPA 9010C	Cyanide (Total and Amenable)
UV-Vis	EPA 7196A	Hexavalent Chromium (Cr^{VI})
Gravimetric	EPA 9071B	HEM/Oil And Grease
Wet Chemistry	SW846 7.3.3.2 / 7.3.4.1	Reactivity
Flash Point Tester	EPA 1010A	Ignitability
GC / ECD	EPA 8081A	4,4'-DDD
GC / ECD	EPA 8081A	4,4'-DDE
GC / ECD	EPA 8081A	4,4'-DDT
GC / ECD	EPA 8081A	Aldrin
GC / ECD	EPA 8081A	Alpha-BHC
GC / ECD	EPA 8081A	Alpha-Chlordane
GC / ECD	EPA 8081A	Beta-BHC
GC / ECD	EPA 8081A	Chlordane
GC / ECD	EPA 8081A	Delta-BHC
GC / ECD	EPA 8081A	Dieldrin
GC / ECD	EPA 8081A	Endosulfan I
GC / ECD	EPA 8081A	Endosulfan II
GC / ECD	EPA 8081A	Endosulfan Sulfate
GC / ECD	EPA 8081A	Endrin
GC / ECD	EPA 8081A	Endrin Aldehyde
GC / ECD	EPA 8081A	Endrin Ketone
GC / ECD	EPA 8081A	Gamma-BHC (Lindane)
GC / ECD	EPA 8081A	Gamma-Chlordane

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / ECD	EPA 8081A	Heptachlor
GC / ECD	EPA 8081A	Heptachlor Epoxide
GC / ECD	EPA 8081A	Methoxychlor
GC / ECD	EPA 8081A	Toxaphene
GC / ECD	EPA 8082	Aroclor-1016
GC / ECD	EPA 8082	Aroclor-1221
GC / ECD	EPA 8082	Aroclor-1232
GC / ECD	EPA 8082	Aroclor-1242
GC / ECD	EPA 8082	Aroclor-1248
GC / ECD	EPA 8082	Aroclor-1254
GC / ECD	EPA 8082	Aroclor-1260
GC / ECD	EPA 8082	Aroclor-1262
GC / ECD	EPA 8082	Aroclor-1268
GC / ECD	EPA 8151A	2,4,5-T
GC / ECD	EPA 8151A	2,4-D
GC / ECD	EPA 8151A	2,4-DB
GC / ECD	EPA 8151A	Dalapon
GC / ECD	EPA 8151A	Dicamba
GC / ECD	EPA 8151A	Dichloroprop
GC / ECD	EPA 8151A	Dinoseb
GC / ECD	EPA 8151A	MCPA
GC / ECD	EPA 8151A	MCPP
GC / ECD	EPA 8151A	Silvex
GC / FPD	EPA 8141A	Chlorpyrifos
GC / FPD	EPA 8141A	Coumaphos
GC / FPD	EPA 8141A	Demeton O + S
GC / FPD	EPA 8141A	Diazinon
GC / FPD	EPA 8141A	Dichlorvos
GC / FPD	EPA 8141A	Disulfoton
GC / FPD	EPA 8141A	Ethoprop
GC / FPD	EPA 8141A	Fensulfothion
GC / FPD	EPA 8141A	Fenthion
GC / FPD	EPA 8141A	Malathion

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / FPD	EPA 8141A	Merphos A + B
GC / FPD	EPA 8141A	Methyl Azinphos
GC / FPD	EPA 8141A	Methyl Parathion
GC / FPD	EPA 8141A	Mevinphos
GC / FPD	EPA 8141A	Naled
GC / FPD	EPA 8141A	Phorate
GC / FPD	EPA 8141A	Ronnel
GC / FPD	EPA 8141A	Sulprofos
GC / FPD	EPA 8141A	Tetrachlorvinphos
GC / FPD	EPA 8141A	Tokuthion
GC / FPD	EPA 8141A	Trichloronate
GC / FID	EPA 8015B	GRO
GC / FID	EPA 8015B	DRO
HPLC / UV	EPA 8330 / 8330B	1,3,5-Trinitrobenzene
HPLC / UV	EPA 8330 / 8330B	1,3-Dinitrobenzene
HPLC / UV	EPA 8330 / 8330B	2,4,6-Trinitrotoluene
HPLC / UV	EPA 8330 / 8330B	2,4-Dinitrotoluene
HPLC / UV	EPA 8330 / 8330B	2,6-Dinitrotoluene
HPLC / UV	EPA 8330 / 8330B	2-Amino-4,6-DNT
HPLC / UV	EPA 8330 / 8330B	2-Nitrotoluene
HPLC / UV	EPA 8330 / 8330B	3,5-Dinitroaniline
HPLC / UV	EPA 8330 / 8330B	3-Nitrotoluene
HPLC / UV	EPA 8330 / 8330B	4-Amino-2,6-DNT
HPLC / UV	EPA 8330 / 8330B	4-Nitrotoluene
HPLC / UV	EPA 8330 / 8330B	HMX
HPLC / UV	EPA 8330 / 8330B	Nitrobenzene
HPLC / UV	8330 MOD	Nitroglycerin
HPLC / UV	8330 MOD	PETN
HPLC / UV	EPA 8330 / 8330B	RDX
HPLC / UV	EPA 8330 / 8330B	Tetryl
GC / MS	EPA 8260C	1,1,1,2-Tetrachloroethane
GC / MS	EPA 8260C	1,1,1-Trichloroethane
GC / MS	EPA 8260C	1,1,2,2-Tetrachloroethane

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / MS	EPA 8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane
GC / MS	EPA 8260C	1,1,2-Trichloroethane
GC / MS	EPA 8260C	1,1-Dichloroethane
GC / MS	EPA 8260C	1,1-Dichloroethene
GC / MS	EPA 8260C	1,1-Dichloropropene
GC / MS	EPA 8260C	1,2,3-Trichlorobenzene
GC / MS	EPA 8260C	1,2,3-Trichloropropane
GC / MS	EPA 8260C	1,2,4-Trichlorobenzene
GC / MS	EPA 8260C	1,2,4-Trimethylbenzene
GC / MS	EPA 8260C	1,2-Dibromo-3-Chloropropane
GC / MS	EPA 8260C	1,2-Dibromoethane
GC / MS	EPA 8260C	1,2-Dichlorobenzene
GC / MS	EPA 8260C	1,2-Dichloroethane
GC / MS	EPA 8260C	1,2-Dichloroethene (Total)
GC / MS	EPA 8260C	1,2-Dichloropropane
GC / MS	EPA 8260C	1,3,5-Trimethylbenzene
GC / MS	EPA 8260C	1,3-Dichlorobenzene
GC / MS	EPA 8260C	1,3-Dichloropropane
GC / MS	EPA 8260C	1,4-Dichlorobenzene
GC / MS	EPA 8260C	1-Chlorohexane
GC / MS	EPA 8260C	2,2-Dichloropropane
GC / MS	EPA 8260C	2-Butanone
GC / MS	EPA 8260C	2-Chlorotoluene
GC / MS	EPA 8260C	2-Hexanone
GC / MS	EPA 8260C	4-Chlorotoluene
GC / MS	EPA 8260C	4-Methyl-2-Pentanone
GC / MS	EPA 8260C	Acetone
GC / MS	EPA 8260C	Benzene
GC / MS	EPA 8260C	Bromobenzene
GC / MS	EPA 8260C	Bromochloromethane
GC / MS	EPA 8260C	Bromodichloromethane
GC / MS	EPA 8260C	Bromoform
GC / MS	EPA 8260C	Bromomethane

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / MS	EPA 8260C	Carbon Disulfide
GC / MS	EPA 8260C	Carbon Tetrachloride
GC / MS	EPA 8260C	Chlorobenzene
GC / MS	EPA 8260C	Chloroethane
GC / MS	EPA 8260C	Chloroform
GC / MS	EPA 8260C	Chloromethane
GC / MS	EPA 8260C	Cis-1,2-Dichloroethene
GC / MS	EPA 8260C	Cis-1,3-Dichloropropene
GC / MS	EPA 8260C	Dibromochloromethane
GC / MS	EPA 8260C	Dibromomethane
GC / MS	EPA 8260C	Dichlorodifluoromethane
GC / MS	EPA 8260C	Ethylbenzene
GC / MS	EPA 8260C	Hexachlorobutadiene
GC / MS	EPA 8260C	Iodomethane
GC / MS	EPA 8260C	Isopropylbenzene
GC / MS	EPA 8260C	M+P-Xylene
GC / MS	EPA 8260C	Methyl Tertiary Butyl Ether
GC / MS	EPA 8260C	Methylene Chloride
GC / MS	EPA 8260C	Naphthalene
GC / MS	EPA 8260C	N-Butanol
GC / MS	EPA 8260C	N-Butylbenzene
GC / MS	EPA 8260C	N-Propylbenzene
GC / MS	EPA 8260C	O-Xylene
GC / MS	EPA 8260C	P-Isopropyltoluene
GC / MS	EPA 8260C	Sec-Butylbenzene
GC / MS	EPA 8260C	Styrene
GC / MS	EPA 8260C	Tert-Butylbenzene
GC / MS	EPA 8260C	Tetrachloroethene
GC / MS	EPA 8260C	Toluene
GC / MS	EPA 8260C	Total Xylenes
GC / MS	EPA 8260C	Trans-1,2-Dichloroethene
GC / MS	EPA 8260C	Trans-1,3-Dichloropropene
GC / MS	EPA 8260C	Trichloroethene

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / MS	EPA 8260C	Trichlorofluoromethane
GC / MS	EPA 8260C	Vinyl Acetate
GC / MS	EPA 8260C	Vinyl Chloride
GC / MS	EPA 8270D	1,2,4-Trichlorobenzene
GC / MS	EPA 8270D	1,2-Dichlorobenzene
GC / MS	EPA 8270D	1,3-Dichlorobenzene
GC / MS	EPA 8270D	1,4-Dichlorobenzene
GC / MS	EPA 8270D	1,4-Dioxane
GC / MS	EPA 8270D	2,3,4,6-Tetrachlorophenol
GC / MS	EPA 8270D	2,4,5-Trichlorophenol
GC / MS	EPA 8270D	2,4,6-Trichlorophenol
GC / MS	EPA 8270D	2,4-Dichlorophenol
GC / MS	EPA 8270D	2,4-Dimethylphenol
GC / MS	EPA 8270D	2,4-Dinitrophenol
GC / MS	EPA 8270D	2,4-Dinitrotoluene
GC / MS	EPA 8270D	2-Chloronaphthalene
GC / MS	EPA 8270D	2-Chlorophenol
GC / MS	EPA 8270D	2-Methylnaphthalene
GC / MS	EPA 8270D	2-Methylphenol
GC / MS	EPA 8270D	2-Nitroaniline
GC / MS	EPA 8270D	2-Nitrophenol
GC / MS	EPA 8270D	3,3'-Dichlorobenzidine
GC / MS	EPA 8270D	3+4-Methylphenol
GC / MS	EPA 8270D	4,6-Dinitro-2-Methylphenol
GC / MS	EPA 8270D	4-Aminobiphenyl
GC / MS	EPA 8270D	4-Bromophenyl Phenyl Ether
GC / MS	EPA 8270D	4-Chloro-3-Methylphenol
GC / MS	EPA 8270D	4-Chloroaniline
GC / MS	EPA 8270D	4-Chlorophenyl Phenyl Ether
GC / MS	EPA 8270D	4-Nitroaniline
GC / MS	EPA 8270D	4-Nitrophenol
GC / MS	EPA 8270D	Acenaphthene
GC / MS	EPA 8270D	Acenaphthylene

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / MS	EPA 8270D	Aniline
GC / MS	EPA 8270D	Anthracene
GC / MS	EPA 8270D	Azobenzene
GC / MS	EPA 8270D	Benzo(A)Anthracene
GC / MS	EPA 8270D	Benzo(A)Pyrene
GC / MS	EPA 8270D	Benzo(B)Fluoranthene
GC / MS	EPA 8270D	Benzo(G,H,I)Perylene
GC / MS	EPA 8270D	Benzo(K)Fluoranthene
GC / MS	EPA 8270D	Benzoic Acid
GC / MS	EPA 8270D	Benzyl Alcohol
GC / MS	EPA 8270D	Bis(2-Chloroethoxy)Methane
GC / MS	EPA 8270D	Bis(2-Chloroethyl)Ether
GC / MS	EPA 8270D	Bis(2-Ethylhexyl) Adipate
GC / MS	EPA 8270D	Butyl Benzyl Phthalate
GC / MS	EPA 8270D	Carbazole
GC / MS	EPA 8270D	Chrysene
GC / MS	EPA 8270D	Dibenzo(A,H)Anthracene
GC / MS	EPA 8270D	Dibenzofuran
GC / MS	EPA 8270D	Diethyl Phthalate
GC / MS	EPA 8270D	Dimethyl Phthalate
GC / MS	EPA 8270D	Di-N-Butyl Phthalate
GC / MS	EPA 8270D	Di-N-Octyl Phthalate
GC / MS	EPA 8270D	Fluoranthene
GC / MS	EPA 8270D	Fluorene
GC / MS	EPA 8270D	Hexachlorobenzene
GC / MS	EPA 8270D	Hexachlorobutadiene
GC / MS	EPA 8270D	Hexachlorocyclopentadiene
GC / MS	EPA 8270D	Hexachloroethane
GC / MS	EPA 8270D	Indeno(1,2,3-Cd)Pyrene
GC / MS	EPA 8270D	Isophorone
GC / MS	EPA 8270D	Naphthalene
GC / MS	EPA 8270D	Nitrobenzene
GC / MS	EPA 8270D	N-Nitrosodimethylamine

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Solid and Chemical Materials		
Technology	**Method**	**Analyte**
GC / MS	EPA 8270D	N-Nitroso-Di-N-Propylamine
GC / MS	EPA 8270D	N-Nitrosodiphenylamine
GC / MS	EPA 8270D	Pentachlorophenol
GC / MS	EPA 8270D	Phenanthrene
GC / MS	EPA 8270D	Phenol
GC / MS	EPA 8270D	Pyrene
GC / MS	EPA 8270D	Pyridine
Gas Proportional Counting	EPA 900 / 9310	Gross Alpha
Gas Proportional Counting	EPA 900 / 9310	Gross Beta
Gas Proportional Counting	EPA 904 / 9320	Ra228
Gas Proportional Counting	HASL300Sr01/Sr02 ASTM D5811	Strontium 89/90
Gas Proportional Counting	HASL300Sr01/Sr02 ASTM D5811	Strontium 90
Liquid Scintillation Counting	EPA 906.0 SM 7500 3H	Tritium
Liquid Scintillation Counting	EPA C-01	Carbon-14
Liquid Scintillation Counting	DOE RP550/RS551	Technicium-99
Liquid Scintillation Counting	Horwitz, Chiariza, Dietz 1992	Lead-210
Liquid Scintillation Counting	ALS SOP 704	Pu241, Pm147
Liquid Scintillation Counting	ALS SOP 774	Nickle-63
Emanation	EPA 903.1 SM 7500-Ra C	Radium-226
Gas Proportional Counting	EPA 903.0 / 9315	Total Radium
Gas Proportional Counting	EPA 903.0 / 9315	Radium-226
Gas Proportional Counting	EPA 902.0 ALS SOP 753	Iodine-129
Alpha-Spec	HASL 300 U02 ASTM D3972	Ac-227
Alpha-Spec	HASL 300 U02 ASTM D3972	Am-241
Alpha-Spec	HASL 300 U02 ASTM D3972	Am-242/243
Alpha-Spec	HASL 300 U02 ASTM D3972	Am-243
Alpha-Spec	HASL 300 U02 ASTM D3972	Cm-242

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Alpha-Spec	HASL 300 U02 ASTM D3972	Cm-243/244
Alpha-Spec	HASL 300 U02 ASTM D3972	Cm-244
Alpha-Spec	HASL 300 U02 ASTM D3972	Cm-245/246
Alpha-Spec	HASL 300 U02 ASTM D3972	Np-237
Alpha-Spec	HASL 300 U02 ASTM D3972	Po-210
Alpha-Spec	HASL 300 U02 ASTM D3972	Pu-238
Alpha-Spec	HASL 300 U02 ASTM D3972	Pu-239
Alpha-Spec	HASL 300 U02 ASTM D3972	Pu-239/240
Alpha-Spec	HASL 300 U02 ASTM D3972	Pu-242
Alpha-Spec	ALSLG-SOP 701	Ra-226
Alpha-Spec	HASL 300 U02 ASTM D3972	Th-227
Alpha-Spec	HASL 300 U02 ASTM D3972	Th-228
Alpha-Spec	HASL 300 U02 ASTM D3972	Th-230
Alpha-Spec	HASL 300 U02 ASTM D3972	Th-232
Alpha-Spec	HASL 300 U02 ASTM D3972	U-232
Alpha-Spec	HASL 300 U02 ASTM D3972	U-233/234
Alpha-Spec	HASL 300 U02 ASTM D3972	U-234
Alpha-Spec	HASL 300 U02 ASTM D3972	U-235
Alpha-Spec	HASL 300 U02 ASTM D3972	U-235/236
Alpha-Spec	HASL 300 U02 ASTM D3972	U-238
Alpha-Spec	HASL 300 U02 ASTM D3972	Uranium, Total

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ac-227
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ac-228
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ag-108m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ag-110m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Al-26
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Am-241
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Am-243
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	As-72
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	As-73
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	As-74
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ba-133
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ba-140
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Be-7
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Bi-211

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Bi-212
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Bi-214
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Br-76
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Br-77
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Br-82
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cd-109
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ce-139
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ce-141
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ce-144
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cf-249
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cf-251
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cl-39
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cm-243
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-56

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-57
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-58
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Co-60
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cr-51
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-134
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-135
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-136
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Cs-137
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Eu-152
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Eu-154
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Eu-155
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Fe-59
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Gd-153
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ge-68

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Hf-181
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Hg-197m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Hg-203
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	I-131
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ir-192
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	K-40
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Kr-85
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	La-140
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Mn-54
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Na-22
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Na-24
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Nb-94
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Nb-95
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Nd-147

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Np-236
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Np-237
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Np-239
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Os-191
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pa-231
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pa-234m
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-210
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-211
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-212
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pb-214
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pm-144
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Pm-146
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Po-209
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-223

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-224
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-226
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ra-228
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rb-83
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rb-86
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rh-101
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rh-106
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Rn-222
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ru-103
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ru-106
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sb-124
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sb-125
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sc-46
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Se-75

Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sn-113
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sn-126
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Sr-85
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Ta-182
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Tb-160
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-227
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-228
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-230
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-231
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-232
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Th-234
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Tl-208
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	U-235
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Uranium, Total

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Solid and Chemical Materials		
Technology	**Method**	**Analyte**
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	V-48
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Y-88
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Zn-65
Gamma Spec	EPA 901.1 HASL 300 Ga-01-R EML 4.5.2.3	Zr-95
Preparation	**Method**	**Type**
Preparation	EPA 3060 A	Alkaline Digestion For Hexavalent Chromium
Preparation	EPA 3050 B	Acid Digestion Of Sediments, Sludges And Soils
Leaching Procedure	EPA 1311	Toxicity Characteristic Leaching Procedure Metals
Leaching Procedure	EPA 1311	Toxicity Characteristic Leaching Procedure Semi-Volatiles
Leaching Procedure	EPA 1311	Toxicity Characteristic Leaching Procedure Volatiles
Preparation	EPA 3540C	Soxhlet Extraction
Preparation	EPA 3580A	Waste Dilution
Cleanup Procedure	EPA 3620B	Florisil Cleanup
Cleanup Procedure	EPA 3630C	Silica Gel Cleanup
Cleanup Procedure	EPA 3640A	Gel Permeation Cleanup
Cleanup Procedure	EPA 3660A	Sulfur Cleanup
Purge and Trap	EPA 5035A	Purge-And-Trap And Extraction For Volatile Organics

Notes:

1) This laboratory offers commercial testing service.

Approved by: _____ Date: November 3, 2011

R. Douglas Leonard
Chief Technical Officer

Issued: 6/1/10 Revised: 11/18/10 Revised: 12/10/10 Revised: 3/24/11 Revised: 5/18/11
Revised: 11/3/11

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc., has assessed the Laboratory of:

Columbia Analytical Services, Inc.
1317 South 13th Avenue
Kelso, WA 98626

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2005 "General Requirements for the competence of Testing and Calibration Laboratories" and the DoD Quality Systems Manual for Environmental Laboratories Version 4.2 (4/22/2009) and is accredited in accordance with the**:**

United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)

This accreditation demonstrates technical competence for the defined scope:

Environmental Testing (As detailed in the supplement)

Such testing shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation Body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President/Operations Manager

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	Issue Date:	Accreditation No:	Certificate No:
July 19, 2011	July 19, 2011	65188	L11-119

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website www.pjlabs.com

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.
1317 South 13th Avenue
Kelso, WA 98626

Accreditation is granted to this facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous	EPA 1631E	CVAFS	Mercury (Low level)
Aqueous	EPA 1664A	Gravimetry	Hexane Extractable Material (HEM)
Aqueous	EPA 1664A	Gravimetry	Total Petroleum Hydrocarbons (TPH)
Aqueous	EPA 180.1	Nephelometer	Turbidity
Aqueous	EPA 2340B	Calculation by 6010	Hardness as $CaCO_3$)
Aqueous	EPA 245.1	CVAA	Mercury
Aqueous	EPA 300.0	IC	Bromide
Aqueous	EPA 300.0	IC	Chloride
Aqueous	EPA 300.0	IC	Fluoride
Aqueous	EPA 300.0	IC	Nitrate + Nitrite as N
Aqueous	EPA 300.0	IC	Nitrate as N
Aqueous	EPA 300.0	IC	Nitrite as N
Aqueous	EPA 300.0	IC	Sulfate
Aqueous	EPA 353.2	Automated Colorimetry	Nitrate + Nitrite as N
Aqueous	EPA 7196A	Colorimetry	Chromium VI
Aqueous	EPA 7470A	CVAA	Mercury
Aqueous	EPA 8260C SIM	GC-MS	1,1,2,2-Tetrachloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,1,2-Trichloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,1-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	1,2-Dibromoethane (EDB)
Aqueous	EPA 8260C SIM	GC-MS	1,2-Dichloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,3 Butadine
Aqueous	EPA 8260C SIM	GC-MS	1,4-Dichlorobenzene
Aqueous	EPA 8260C SIM	GC-MS	Bromodichloromethane
Aqueous	EPA 8260C SIM	GC-MS	Carbon Tetrachloride
Aqueous	EPA 8260C SIM	GC-MS	Chlorodibromomethane
Aqueous	EPA 8260C SIM	GC-MS	Chloroform
Aqueous	EPA 8260C SIM	GC-MS	Chloromethane
Aqueous	EPA 8260C SIM	GC-MS	cis-1,2-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Dichloromethane (Methylene Chloride)
Aqueous	EPA 8260C SIM	GC-MS	Tetrachloroethene
Aqueous	EPA 8260C SIM	GC-MS	trans-1,2-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Trichloroethene

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Matrix	Standard / Method	Technology	Analyte
Aqueous	EPA 8260C SIM	GC-MS	Vinyl chloride
Aqueous	EPA 9020B	Microcoulometric-titration detector	Total Organic Halides (TOX)
Aqueous	EPA 9040C	pH Meter	pH
Aqueous	EPA 9060A	TOC Meter	Total Organic Carbons (TOC)
Aqueous	LCP-1694.r1	HPLC/MS/MS	17α-estradiol
Aqueous	LCP-1694.r1	HPLC/MS/MS	17α-ethynylestradiol
Aqueous	LCP-1694.r1	HPLC/MS/MS	17β-estradiol
Aqueous	LCP-1694.r1	HPLC/MS/MS	Acetominophen
Aqueous	LCP-1694.r1	HPLC/MS/MS	Androstenedione
Aqueous	LCP-1694.r1	HPLC/MS/MS	Atrazine
Aqueous	LCP-1694.r1	HPLC/MS/MS	Bisphenol A
Aqueous	LCP-1694.r1	HPLC/MS/MS	Caffeine
Aqueous	LCP-1694.r1	HPLC/MS/MS	Carbamazepine
Aqueous	LCP-1694.r1	HPLC/MS/MS	DEET
Aqueous	LCP-1694.r1	HPLC/MS/MS	Diazepam
Aqueous	LCP-1694.r1	HPLC/MS/MS	Diclofenac
Aqueous	LCP-1694.r1	HPLC/MS/MS	Diethylstilbestrol
Aqueous	LCP-1694.r1	HPLC/MS/MS	Dilantin
Aqueous	LCP-1694.r1	HPLC/MS/MS	Estriol
Aqueous	LCP-1694.r1	HPLC/MS/MS	Estrone
Aqueous	LCP-1694.r1	HPLC/MS/MS	Fluoxetine
Aqueous	LCP-1694.r1	HPLC/MS/MS	Gemfibrozil
Aqueous	LCP-1694.r1	HPLC/MS/MS	Hydrocodone
Aqueous	LCP-1694.r1	HPLC/MS/MS	Ibuprofen
Aqueous	LCP-1694.r1	HPLC/MS/MS	Iopromide
Aqueous	LCP-1694.r1	HPLC/MS/MS	Meprobamate
Aqueous	LCP-1694.r1	HPLC/MS/MS	Methadone
Aqueous	LCP-1694.r1	HPLC/MS/MS	Naproxen
Aqueous	LCP-1694.r1	HPLC/MS/MS	Oxybenzone
Aqueous	LCP-1694.r1	HPLC/MS/MS	Pentoxifylline
Aqueous	LCP-1694.r1	HPLC/MS/MS	Progesterone
Aqueous	LCP-1694.r1	HPLC/MS/MS	Salicylic Acid

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Matrix	Standard / Method	Technology	Analyte
Aqueous	LCP-1694.r1	HPLC/MS/MS	Sulfamethoxazole
Aqueous	LCP-1694.r1	HPLC/MS/MS	Testosterone
Aqueous	LCP-1694.r1	HPLC/MS/MS	Triclosan
Aqueous	LCP-1694.r1	HPLC/MS/MS	Trimethoprim
Aqueous	SM 2130B	Nephelometer	Turbidity
Aqueous	SM 4500 CN- G	Colorimetry	Cyanide, Amenable
Aqueous	SM 4500 P-E	Colorimetry	ortho-phosphorous
Aqueous	SM 4500 S2 D	Distillation Unit	Sulfide
Aqueous	SM2320B	Titrimetry	Total Alkalinity (as $CaCO_3$)
Aqueous	SM2510B	Conductivity Meter	Specific Conductance
Aqueous	SM2540B	Balance	Solids, Total
Aqueous	SM2540C	Balance	Solids, Total Dissolved
Aqueous	SM2540D	Balance	Solids, Total Suspended
Aqueous	SM4500CN E	Colorimetry	Total Cyanide
Aqueous	SM4500CN-G	Colorimetry	Cyanide, Amenable
Aqueous	SM4500NH3 G	Colorimetry	Ammonia
Aqueous	SM5220C	Titrimetry	Chemical Oxygen Demand (COD)
Aqueous	SM5310C	TOC Meter	Total Organic Carbons (TOC)
Aqueous	SOP-LCP-PFC	HPLC/MS/MS	Perfluor-n butanoic acid (PFBA)
Aqueous	SOP-LCP-PFC	HPLC/MS/MS	Perfluor-n octanesulfonate (PFOS)
Aqueous	SOP-LCP-PFC	HPLC/MS/MS	Perfluor-n octanoic acid (PFOA)
Aqueous/Drinking Water	EPA 200.9	GFAA	Antimony
Aqueous/Drinking Water	EPA 200.9	GFAA	Selenium
Aqueous/Drinking Water	EPA 200.9	GFAA	Thallium
Aqueous/Drinking Water	EPA 200.9	GFAA	Arsenic
Aqueous/Drinking Water	EPA 200.9	GFAA	Lead
Aqueous/Solid	ASTM D 1426-93B	ISE	Nitrogen, Total Kjeldahl (TKN)
Aqueous/Solid	EPA 1020A	Closed Cup Flashpoint	Ignitability
Aqueous/Solid	EPA 314.0	IC	Perchlorate
Aqueous/Solid	EPA 350.1	Colorimetry	Ammonia
Aqueous/Solid	EPA 365.3	Colorimetry	Total Phosphorus
Aqueous/Solid	EPA 6010B, C	ICP	Aluminum
Aqueous/Solid	EPA 6010B, C	ICP	Antimony

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 6010B, C	ICP	Arsenic
Aqueous/Solid	EPA 6010B, C	ICP	Barium
Aqueous/Solid	EPA 6010B, C	ICP	Beryllium
Aqueous/Solid	EPA 6010B, C	ICP	Boron
Aqueous/Solid	EPA 6010B, C	ICP	Cadmium
Aqueous/Solid	EPA 6010B, C	ICP	Calcium
Aqueous/Solid	EPA 6010B, C	ICP	Chromium, total
Aqueous/Solid	EPA 6010B, C	ICP	Cobalt
Aqueous/Solid	EPA 6010B, C	ICP	Copper
Aqueous/Solid	EPA 6010B, C	ICP	Iron
Aqueous/Solid	EPA 6010B, C	ICP	Lead
Aqueous/Solid	EPA 6010B, C	ICP	Magnesium
Aqueous/Solid	EPA 6010B, C	ICP	Manganese
Aqueous/Solid	EPA 6010B, C	ICP	Molybdenum
Aqueous/Solid	EPA 6010B, C	ICP	Nickel
Aqueous/Solid	EPA 6010B, C	ICP	Potassium
Aqueous/Solid	EPA 6010B, C	ICP	Selenium
Aqueous/Solid	EPA 6010B, C	ICP	Silver
Aqueous/Solid	EPA 6010B, C	ICP	Sodium
Aqueous/Solid	EPA 6010B, C	ICP	Strontium
Aqueous/Solid	EPA 6010B, C	ICP	Thallium
Aqueous/Solid	EPA 6010B, C	ICP	Tin
Aqueous/Solid	EPA 6010B, C	ICP	Titanium
Aqueous/Solid	EPA 6010B, C	ICP	Vanadium
Aqueous/Solid	EPA 6010B, C	ICP	Zinc
Aqueous/Solid	EPA 6020, A	ICP-MS	Aluminum
Aqueous/Solid	EPA 6020, A	ICP-MS	Antimony
Aqueous/Solid	EPA 6020, A	ICP-MS	Arsenic
Aqueous/Solid	EPA 6020, A	ICP-MS	Barium
Aqueous/Solid	EPA 6020, A	ICP-MS	Beryllium
Aqueous/Solid	EPA 6020, A	ICP-MS	Boron
Aqueous/Solid	EPA 6020, A	ICP-MS	Cadmium
Aqueous/Solid	EPA 6020, A	ICP-MS	Chromium, total

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 6020, A	ICP-MS	Cobalt
Aqueous/Solid	EPA 6020, A	ICP-MS	Copper
Aqueous/Solid	EPA 6020, A	ICP-MS	Iron
Aqueous/Solid	EPA 6020, A	ICP-MS	Lead
Aqueous/Solid	EPA 6020, A	ICP-MS	Manganese
Aqueous/Solid	EPA 6020, A	ICP-MS	Molybdenum
Aqueous/Solid	EPA 6020, A	ICP-MS	Nickel
Aqueous/Solid	EPA 6020, A	ICP-MS	Selenium
Aqueous/Solid	EPA 6020, A	ICP-MS	Silver
Aqueous/Solid	EPA 6020, A	ICP-MS	Strontium
Aqueous/Solid	EPA 6020, A	ICP-MS	Thallium
Aqueous/Solid	EPA 6020, A	ICP-MS	Tin
Aqueous/Solid	EPA 6020, A	ICP-MS	Titanium
Aqueous/Solid	EPA 6020, A	ICP-MS	Vanadium
Aqueous/Solid	EPA 6020, A	ICP-MS	Zinc
Aqueous/Solid	EPA 7010	GFAA	Antimony
Aqueous/Solid	EPA 7010	GFAA	Arsenic
Aqueous/Solid	EPA 7010	GFAA	Chromium, total
Aqueous/Solid	EPA 7010	GFAA	Lead
Aqueous/Solid	EPA 7010	GFAA	Selenium
Aqueous/Solid	EPA 7010	GFAA	Thallium
Aqueous/Solid	EPA 7742	AA, Borohydride Reduction; GFAA	Selenium
Aqueous/Solid	EPA 8015C/AK103-RRO	GC-FID	Residual Range Organics (RRO)
Aqueous/Solid	EPA 8015C; AK101-GRO; NWTPH-Gx	GC-FID	Gasoline Range Organics (GRO)
Aqueous/Solid	EPA 8015C; AK102-DRO; NWTPH-Dx	GC-FID	Diesel Range Organics (DRO)
Aqueous/Solid	EPA 8021B	GC-FID	Benzene
Aqueous/Solid	EPA 8021B	GC-FID	Ethyl Benzene
Aqueous/Solid	EPA 8021B	GC-FID	Toluene
Aqueous/Solid	EPA 8021B	GC-FID	Xylene, total
Aqueous/Solid	EPA 8081A, B	GC-ECD	Aldrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Alpha-BHC

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDD (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDE (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDT (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	delta-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	Dieldrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan I
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan II
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan sulfate
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin aldehyde
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin ketone
Aqueous/Solid	EPA 8081A, B	GC-ECD	gamma-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	gamma-Chlordane
Aqueous/Solid	EPA 8081A, B	GC-ECD	Heptachlor
Aqueous/Solid	EPA 8081A, B	GC-ECD	Heptachlor Epoxide (beta)
Aqueous/Solid	EPA 8081A, B	GC-ECD	Methoxychlor
Aqueous/Solid	EPA 8081A, B	GC-ECD	Toxaphene (total)
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDD
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDE
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDT
Aqueous/Solid	EPA 8081B	GC-ECD	Chlorpyrifos
Aqueous/Solid	EPA 8081B	GC-ECD	cis-Nonachlor
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachlorobenzene
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachlorobutadiene
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachloroethane
Aqueous/Solid	EPA 8081B	GC-ECD	Isodrin
Aqueous/Solid	EPA 8081B	GC-ECD	Mirex
Aqueous/Solid	EPA 8081B	GC-ECD	Oxychlordane
Aqueous/Solid	EPA 8081B	GC-ECD	trans-Nonachlor
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4,5,5,6-Nonachlorobiphenyl (PCB 206)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4,5,6-Octachlorobiphenyl (PCB 195)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4,5-Heptachlorobiphenyl (PCB 170)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,3,4,4-Hexachlorobiphenyl (PCB 128)

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,5,5-Heptachlorobiphenyl (PCB180)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,5,6-Heptachlorobiphenyl (PCB 183)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,5-Hexachlorobiphenyl (PCB 138)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,4,6,6-Heptachlorobiphenyl (PCB 184)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,5,5,6-Heptachlorobiphenyl (PCB 187)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,5-Pentachlorobiphenyl (PCB87)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,4,5-Pentachlorobiphenyl (PCB90)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,3,5-Tetrachlorobiphenyl (PCB44)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,4,4,5,5-Hexachlorobiphenyl (PCB153)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,4,5,5-Pentachlorobiphenyl (PCB 101)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,5,5-Tetrachlorbiphenyl (PCB 53)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,2,5-Trichlorobiphenyl (PCB18)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,5,5-Heptachlorobiphenyl (PCB 189)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,5-Hexachlorobiphenyl (PCB 156)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,5-Hexachlorobiphenyl (PCB 157)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4,6-Hexachlorobiphenyl (PCB 158)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,3,4,4-Pentachlorobiphenyl (PCB 105)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5,5 Hexachlorobiphenyl (PCB 167)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5,6-Hexachlorobiphenyl (PCB 168)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5-Pentachlorobiphenyl (PCB 114)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5-Pentachlorobiphenyl (PCB 118)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4,5-Pentachlorobiphenyl (PCB 123)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4-Tetrachlorobiphenyl (PCB60)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,3,4,4-Tetrachlorobiphenyl (PCB66)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,4,4-Trichlorobiphenyl (PCB 28)
Aqueous/Solid	EPA 8082, A	GC-ECD	2,4-Dichlorobiphenyl (PCB8)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,3,4,4,5,5-Hexachlorobiphenyl (PCB 169)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,3,4,4,5-Pentachlorobiphenyl (PCB 126)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,3,4,4-Tetrachlorobiphenyl (PCB 77)
Aqueous/Solid	EPA 8082, A	GC-ECD	3,4,4,5-Tetrachlorobiphenyl (PCB 81)
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1016
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1221
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1232

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1242
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1248
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1254
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1260
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1262
Aqueous/Solid	EPA 8082, A	GC-ECD	Aroclor 1268
Aqueous/Solid	EPA 8082, A	GC-ECD	Decachlorobiphenyl (PC B209)
Aqueous/Solid	EPA 8151A	GC-ECD	2,4,5-T
Aqueous/Solid	EPA 8151A	GC-ECD	2,4,5-TP (Silvex)
Aqueous/Solid	EPA 8151A	GC-ECD	2,4-D
Aqueous/Solid	EPA 8151A	GC-ECD	2,4-DB
Aqueous/Solid	EPA 8151A	GC-ECD	Dalapon
Aqueous/Solid	EPA 8151A	GC-ECD	Dicamba
Aqueous/Solid	EPA 8151A	GC-ECD	Dichloroprop
Aqueous/Solid	EPA 8151A	GC-ECD	Dinoseb
Aqueous/Solid	EPA 8151A	GC-ECD	MCPA
Aqueous/Solid	EPA 8151A	GC-ECD	MCPP
Aqueous/Solid	EPA 8260B, C	GC-MS	1-phenylpropane
Aqueous/Solid	EPA 8260B, C	GC-MS	Benzene
Aqueous/Solid	EPA 8260B, C	GC-MS	DIPE
Aqueous/Solid	EPA 8260B, C	GC-MS	ETBE
Aqueous/Solid	EPA 8260B, C	GC-MS	Ethyl Benzene
Aqueous/Solid	EPA 8260B, C	GC-MS	Freon 11
Aqueous/Solid	EPA 8260B, C	GC-MS	Freon 113
Aqueous/Solid	EPA 8260B, C	GC-MS	MTBE
Aqueous/Solid	EPA 8260B, C	GC-MS	TAME
Aqueous/Solid	EPA 8260B, C	GC-MS	tert-Butyl alcohol
Aqueous/Solid	EPA 8260B, C	GC-MS	Toluene
Aqueous/Solid	EPA 8260B, C	GC-MS	Xylene, total
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1,1,2-Tetrachloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1,1-Trichloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1,2,2-Tetrachloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1,2-Trichloroethane

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1-Dichloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1-Dichloroethene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,1-Dichloropropene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,3-Trichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,3-Trichloropropane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2,4-Trimethylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2-Dibromoethane (EDB)
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2-Dichloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,2-Dichloropropane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,3,5-Trimethylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	1,3-Dichloropropane
Aqueous/Solid	EPA 8260B,C	GC-MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	2,2-Dichloropropane
Aqueous/Solid	EPA 8260B,C	GC-MS	2-Butanone (MEK)
Aqueous/Solid	EPA 8260B,C	GC-MS	2-Chloroethylvinlether
Aqueous/Solid	EPA 8260B,C	GC-MS	2-Chlorotoluene
Aqueous/Solid	EPA 8260B,C	GC-MS	2-Hexanone
Aqueous/Solid	EPA 8260B,C	GC-MS	4-Chlorotoluene
Aqueous/Solid	EPA 8260B,C	GC-MS	4-Isopropyltoluene
Aqueous/Solid	EPA 8260B,C	GC-MS	4-Methyl-2-pentanone (MIBK)
Aqueous/Solid	EPA 8260B,C	GC-MS	Acetone
Aqueous/Solid	EPA 8260B,C	GC-MS	Acetonitrile
Aqueous/Solid	EPA 8260B,C	GC-MS	Acrolein
Aqueous/Solid	EPA 8260B,C	GC-MS	Acrylonitrile
Aqueous/Solid	EPA 8260B,C	GC-MS	Benzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Bromobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Bromochloromethane
Aqueous/Solid	EPA 8260B,C	GC-MS	Bromodichloromethane
Aqueous/Solid	EPA 8260B,C	GC-MS	Bromoform
Aqueous/Solid	EPA 8260B,C	GC-MS	Bromomethane

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.
1317 South 13th Avenue
Kelso, WA 98626

Accreditation is granted to this facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8260B,C	GC-MS	Carbon disulfide
Aqueous/Solid	EPA 8260B,C	GC-MS	Carbon Tetrachloride
Aqueous/Solid	EPA 8260B,C	GC-MS	Chlorobenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Chlorodibromomethane
Aqueous/Solid	EPA 8260B,C	GC-MS	Chloroethane
Aqueous/Solid	EPA 8260B,C	GC-MS	Chloroform
Aqueous/Solid	EPA 8260B,C	GC-MS	Chloromethane
Aqueous/Solid	EPA 8260B,C	GC-MS	cis-1,2-Dichloroethene
Aqueous/Solid	EPA 8260B,C	GC-MS	cis-1,3-Dichloropropene
Aqueous/Solid	EPA 8260B,C	GC-MS	Dibromomethane
Aqueous/Solid	EPA 8260B,C	GC-MS	Dichlorodifluoromethane
Aqueous/Solid	EPA 8260B,C	GC-MS	Dichloromethane (Methylene Chloride)
Aqueous/Solid	EPA 8260B,C	GC-MS	Di-isopropylether (DIPE)
Aqueous/Solid	EPA 8260B,C	GC-MS	Ethylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8260B,C	GC-MS	Isopropylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Methyl-tert-butylether (MTBE)
Aqueous/Solid	EPA 8260B,C	GC-MS	Naphthalene
Aqueous/Solid	EPA 8260B,C	GC-MS	n-Butylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	n-Propylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	sec-Butylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Styrene
Aqueous/Solid	EPA 8260B,C	GC-MS	tert-amylmethylether (TAME)
Aqueous/Solid	EPA 8260B,C	GC-MS	tert-butylbenzene
Aqueous/Solid	EPA 8260B,C	GC-MS	Tetrachloroethene
Aqueous/Solid	EPA 8260B,C	GC-MS	Toluene
Aqueous/Solid	EPA 8260B,C	GC-MS	trans-1,2-Dichloroethene
Aqueous/Solid	EPA 8260B,C	GC-MS	trans-1,3-Dichloropropene
Aqueous/Solid	EPA 8260B,C	GC-MS	Trichloroethene
Aqueous/Solid	EPA 8260B,C	GC-MS	Trichlorofluoromethane (Freon 11)
Aqueous/Solid	EPA 8260B,C	GC-MS	Vinyl acetate
Aqueous/Solid	EPA 8260B,C	GC-MS	Vinyl chloride
Aqueous/solid	EPA 8260B,C	GC-MS	Xylenes, total

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1317 South 13th Avenue
Kelso, WA 98626

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D	GC-MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4,5-Trichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4,6-Trichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dimethylphenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dinitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,4-Dinitrotoluene
Aqueous/Solid	EPA 8270C, D	GC-MS	2,6-Dichlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2,6-Dinitrotoluene
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Chloronaphthalene
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Chlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Methyl-4,6-Dinitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Methylphenol
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Nitroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	2-Nitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	3,3-Dichlorobenzidine
Aqueous/Solid	EPA 8270C, D	GC-MS	3-Nitroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Bromophenyl-phenylether
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Chloro-3-methylphenol
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Chloroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Chlorophenyl-phenylether
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Methylphenol (and/or 3-Methylphenol)
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Nitroaniline
Aqueous/Solid	EPA 8270C, D	GC-MS	4-Nitrophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	Acenaphthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Acenaphthylene
Aqueous/Solid	EPA 8270C, D	GC-MS	Aniline
Aqueous/Solid	EPA 8270C, D	GC-MS	Anthracene
Aqueous/Solid	EPA 8270C, D	GC-MS	Azinphos-methyl (Guthion)

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ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.
1317 South 13th Avenue
Kelso, WA 98626

Accreditation is granted to this facility to perform the following testing:

Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzidine
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(a)anthracene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(a)pyrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(b)fluoranthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(f,h,i)perylene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzo(k)fluoranthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzoic acid
Aqueous/Solid	EPA 8270C, D	GC-MS	Benzyl alcohol
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-Chloroethoxy)methane
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-Chloroethyl)ether
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-Chloroisopropyl)ether
Aqueous/Solid	EPA 8270C, D	GC-MS	bis(2-ethylhexy)phthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Butyl benzyl phthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Carbazole
Aqueous/Solid	EPA 8270C, D	GC-MS	Chlorpyrifos
Aqueous/Solid	EPA 8270C, D	GC-MS	Chrysene
Aqueous/Solid	EPA 8270C, D	GC-MS	Demeton O & S
Aqueous/Solid	EPA 8270C, D	GC-MS	Diazinon
Aqueous/Solid	EPA 8270C, D	GC-MS	Dibenzo(a,h)anthracene
Aqueous/Solid	EPA 8270C, D	GC-MS	Dibenzofuran
Aqueous/Solid	EPA 8270C, D	GC-MS	Dichlorvos
Aqueous/Solid	EPA 8270C, D	GC-MS	Diethyl phthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	dimethoate
Aqueous/Solid	EPA 8270C, D	GC-MS	Dimethylphthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	di-n-butylphthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Di-n-octylphthalate
Aqueous/Solid	EPA 8270C, D	GC-MS	Disulfoton
Aqueous/Solid	EPA 8270C, D	GC-MS	Ethoprop
Aqueous/Solid	EPA 8270C, D	GC-MS	Fluoranthene
Aqueous/Solid	EPA 8270C, D	GC-MS	Fluorene
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachlorocyclopentadiene

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

Columbia Analytical Services, Inc.
1317 South 13th Avenue
Kelso, WA 98626

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D	GC-MS	Hexachloroethane
Aqueous/Solid	EPA 8270C, D	GC-MS	Indeno(1,2,3, cd)pyrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Isophorone
Aqueous/Solid	EPA 8270C, D	GC-MS	Naphthalene
Aqueous/Solid	EPA 8270C, D	GC-MS	Nitrobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	N-Nitrosodiethylamine
Aqueous/Solid	EPA 8270C, D	GC-MS	N-Nitrosodimethylamine
Aqueous/Solid	EPA 8270C, D	GC-MS	N-Nitroso-di-n-propylamine
Aqueous/Solid	EPA 8270C, ~~D~~	GC-MS	N-Nitrosodiphenylamine
Aqueous/Solid	EPA 8270C, D	GC-MS	o-Toluidine
Aqueous/Solid	EPA 8270C, D	GC-MS	Parathion, ethyl
Aqueous/Solid	EPA 8270C, D	GC-MS	Parathion, methyl
Aqueous/Solid	EPA 8270C, D	GC-MS	Pentachlorobenzene
Aqueous/Solid	EPA 8270C, D	GC-MS	Pentachlorophenol
Aqueous/Solid	EPA 8270C, D	GC-MS	Phenanthrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Phenol
Aqueous/Solid	EPA 8270C, D	GC-MS	Phorate
Aqueous/Solid	EPA 8270C, D	GC-MS	Pyrene
Aqueous/Solid	EPA 8270C, D	GC-MS	Pyridine
Aqueous/Solid	EPA 8270C, D	GC-MS	Ronnel
Aqueous/Solid	EPA 8270C, D	GC-MS	Stirophos
Aqueous/Solid	EPA 8270C, D	GC-MS	Sulfotepp
Aqueous/Solid	EPA 8270C, D	GC-MS	2,3,4,6-Tetrachlorophenol
Aqueous/Solid	EPA 8270C,D	GC-MS	1,2,4,5-Tetrachlorobenzene
Aqueous/Solid	EPA 8270SIM	GC-MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270SIM	GC-MS	Acenaphthene
Aqueous/Solid	EPA 8270SIM	GC-MS	Acenaphthylene
Aqueous/Solid	EPA 8270SIM	GC-MS	Anthracene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(a)anthracene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(a)pyrene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(b)fluoranthene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(g,h,i)perylene
Aqueous/Solid	EPA 8270SIM	GC-MS	Benzo(k)fluoranthene

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Kelso, WA 98626

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 8270SIM	GC-MS	Chrysene
Aqueous/Solid	EPA 8270SIM	GC-MS	Dibenzo(a,h)anthracene
Aqueous/Solid	EPA 8270SIM	GC-MS	Fluoranthene
Aqueous/Solid	EPA 8270SIM	GC-MS	Fluorene
Aqueous/Solid	EPA 8270SIM	GC-MS	Indeno(1,2,3, cd)pyrene
Aqueous/Solid	EPA 8270SIM	GC-MS	Naphthalene
Aqueous/Solid	EPA 8270SIM	GC-MS	p-Dioxane
Aqueous/Solid	EPA 8270SIM	GC-MS	Phenanthrene
Aqueous/Solid	EPA 8270SIM	GC-MS	Pyrene
Aqueous/Solid	EPA 8330B	HPLC	1,3,5-Trinitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	1,3-Dinitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	2,4,6-Trinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	2,4-Dinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	2,6-Dinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	2-Amino-4,6-dinitrtoluene
Aqueous/Solid	EPA 8330B	HPLC	2-Nitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	3,5-Dinitroaniline
Aqueous/Solid	EPA 8330B	HPLC	3-Nitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	4-Amino-2,6-dinitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	4-Nitrotoluene
Aqueous/Solid	EPA 8330B	HPLC	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
Aqueous/Solid	EPA 8330B	HPLC	Nitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	Nitroglycerin
Aqueous/Solid	EPA 8330B	HPLC	Pentachloronitrobenzene
Aqueous/Solid	EPA 8330B	HPLC	Pentaerythritoltetranitrate
Aqueous/Solid	EPA 8330B	HPLC	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)
Aqueous/Solid	EPA 8330B	HPLC	Tetryl (methyl-2,4,6-trinitrophenylnitramine)
Aqueous/Solid	EPA 9012B,	Colorimetry	Total Cyanide
Aqueous/Solid	EPA 9030B	Distillation Unit	Sulfide
Aqueous/Solid	EPA 9056A	IC	Bromide
Aqueous/Solid	EPA 9056A	IC	Chloride
Aqueous/Solid	EPA 9056A	IC	Fluoride

Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

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Matrix	Standard / Method	Technology	Analyte
Aqueous/Solid	EPA 9056A	IC	Sulfate
Aqueous/Solid	EPA 9065	Spectrophotometer	Total Phenolics
Aqueous/Solid	LCP-NITG	HPLC/UV	Nitroguanidine
Aqueous/Solid	SM4500 NH3 G	Colorimetry	Ammonia
Aqueous/Solid	SOC-OTTO	GC-ECD	Otto Fuel
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Aldrin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Alpha-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	beta-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	DDD (4,4)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	DDE (4,4)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	DDT (4,4)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	delta-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Dieldrin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endosulfan I
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endosulfan II
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endosulfan sulfate
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endrin
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endrin aldehyde
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Endrin ketone
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	gamma-BHC
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Heptachlor
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Heptachlor Epoxide (beta)
Aqueous/Solid	SOC-PESTMS2	GC/MS/MS/MS	Methoxychlor
Drinking Water	EPA 504	GC-ECD	1,2-Dibromo-3-chloropropane (DBCP)
Drinking Water	EPA 504	GC-ECD	1,2-Dibromoethane (EDB)
Drinking Water	EPA 524.2	GC-MS	1,1,1,2-Tetrachloroethane
Drinking Water	EPA 524.2	GC-MS	1,1,1-Trichloroethane
Drinking Water	EPA 524.2	GC-MS	1,1,2,2-Tetrachloroethane
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloroethane
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	1,2,3-Trichlorobenzene

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Columbia Analytical Services, Inc.
1317 South 13th Avenue
Kelso, WA 98626

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Matrix	Standard / Method	Technology	Analyte
Drinking Water	EPA 524.2	GC-MS	1,2,3-Trichloropropane
Drinking Water	EPA 524.2	GC-MS	1,2,4-Trichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2,4-Trimethylbenzene
Drinking Water	EPA 524.2	GC-MS	1,2-Dibromoethane (EDB)
Drinking Water	EPA 524.2	GC-MS	1,2-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2-Dichloroethane
Drinking Water	EPA 524.2	GC-MS	1,2-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	1,3,5-Trimethylbenzene
Drinking Water	EPA 524.2	GC-MS	1,3-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,3-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	1,4-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	2,2-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	2-Chlorotoluene
Drinking Water	EPA 524.2	GC-MS	4-Chlorotoluene
Drinking Water	EPA 524.2	GC-MS	4-Isopropyltoluene
Drinking Water	EPA 524.2	GC-MS	Benzene
Drinking Water	EPA 524.2	GC-MS	Bromobenzene
Drinking Water	EPA 524.2	GC-MS	Bromochloromethane
Drinking Water	EPA 524.2	GC-MS	Bromodichloromethane
Drinking Water	EPA 524.2	GC-MS	Bromoform
Drinking Water	EPA 524.2	GC-MS	Bromomethane
Drinking Water	EPA 524.2	GC-MS	Carbon Tetrachloride
Drinking Water	EPA 524.2	GC-MS	Chlorobenzene
Drinking Water	EPA 524.2	GC-MS	Chlorodibromomethane
Drinking Water	EPA 524.2	GC-MS	Chloroethane
Drinking Water	EPA 524.2	GC-MS	Chloroform
Drinking Water	EPA 524.2	GC-MS	Chloromethane
Drinking Water	EPA 524.2	GC-MS	cis-1,2-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	cis-1,3-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	Dibromomethane
Drinking Water	EPA 524.2	GC-MS	Dichlorodifluoromethane
Drinking Water	EPA 524.2	GC-MS	Dichloromethane (Methylene Chloride)
Drinking Water	EPA 524.2	GC-MS	Ethylbenzene

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1317 South 13th Avenue
Kelso, WA 98626

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Matrix	Standard / Method	Technology	Analyte
Drinking Water	EPA 524.2	GC-MS	Hexachlorobutadiene
Drinking Water	EPA 524.2	GC-MS	Isopropylbenzene
Drinking Water	EPA 524.2	GC-MS	m+p-Xylene
Drinking Water	EPA 524.2	GC-MS	Naphthalene
Drinking Water	EPA 524.2	GC-MS	n-Butylbenzene
Drinking Water	EPA 524.2	GC-MS	n-Propylbenzene
Drinking Water	EPA 524.2	GC-MS	o-Xylene
Drinking Water	EPA 524.2	GC-MS	sec-Butylbenzene
Drinking Water	EPA 524.2	GC-MS	Styrene
Drinking Water	EPA 524.2	GC-MS	tert-butylbenzene
Drinking Water	EPA 524.2	GC-MS	Tetrachloroethene
Drinking Water	EPA 524.2	GC-MS	Toluene
Drinking Water	EPA 524.2	GC-MS	trans-1,2-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	trans-1,3-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	Trichlorofluoromethane (Freon 11)
Drinking Water	EPA 524.2	GC-MS	Vinyl chloride
Drinking Water	EPA 524.2	GC-MS	Xylenes, total
Solid	ASTMD4129-92M, Lloyd Kahn	TOC Meter	Total Organic Carbons (TOC)
Solid	EPA 160.3M	Gravimetry	Solids, Total
Solid	EPA 7471A, B	CVAA	Mercury
Solid	EPA 9045D	pH Meter	pH
Solid	EPA 9056A	IC	Nitrate as N
Solid	EPA 9056A	IC	Nitrite as N
Solid	EPA 9071B	Gravimetry	Total Petroleum Hydrocarbons (TPH)
Solid	GEN-NCEL	Colorimetry	Nitrocellulose
Solid	LCP-LCMS4	HPLC/MS/MS	1,3,5-Trinitrobenzene
Solid	LCP-LCMS4	HPLC/MS/MS	1,3-Dinitrobenzene
Solid	LCP-LCMS4	HPLC/MS/MS	2,4,6-Trinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	2,4-Dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	2,6-Dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	2-Amino-4,6-dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	3,5-Dinitroaniline

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Matrix	Standard / Method	Technology	Analyte
Solid	LCP-LCMS4	HPLC/MS/MS	4-Amino-2,6-dinitrotoluene
Solid	LCP-LCMS4	HPLC/MS/MS	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)
Solid	LCP-LCMS4	HPLC/MS/MS	Pentaerythritoltetranitrate
Solid	LCP-LCMS4	HPLC/MS/MS	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)
Solid	LCP-LCMS4	HPLC/MS/MS	Tetryl (methyl-2,4,6-trinitrophenylnitramine)
Solid	LCP-Nitro	HPLC/MS/MS	2,4-Dinitrophenol
Solid	LCP-Nitro	HPLC/MS/MS	Picramic Acid
Solid	LCP-Nitro	HPLC/MS/MS	Picric Acid
Solid	PSEP	Gravimetry	Particle Size

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Matrix	Standard / Method	Technology	Analyte
Aqueous	EPA 1640	Reductive Metals Precipitation	Prep Method
Aqueous	EPA 3010A	Acid Digestion	Metals Digestion
Aqueous	EPA 3020A	Acid Digestion	Metals Digestion
Aqueous	EPA 3520C	Continuous Liquid-Liquid Extraction	Extractable Prep
Aqueous	EPA 3535A	Solid Phase Extraction	Prep Method
Aqueous	EPA 5030B	Purge and Trap for Volatiles	Volatile Prep
Aqueous	SOP-MET-DIG.r10	Acid Digestion	Metals Digestion
Solid	EPA 3050B	Acid Digestion	Metals Digestion
Solid	EPA 3060	Alkaline Digestion for Cr(VI)	Alkaline Digestion for Cr(VI) only
Solid	EPA 3541	Automated Soxhlet Extraction	Extractable Prep
Solid	EPA 3550B	Ultrasonic Extraction	Extractable Prep
Solid	EPA 5035A	Purge and Trap for Volatiles	Voc Organics
Solid	EPA 5050	Bomb Digestion	Prep Method
Aqueous/Solids	EPA 1311	TCLP Extraction	Physical Extraction
Aqueous/Solids	EPA 3620C	Florisil clean up	Extractable Cleanup
Aqueous/Solids	EPA 3630C	Silica gel clean up	Extractable Prep
Aqueous/Solids	EPA 3640A	Gel-Permeation Clean-up	Extractable Cleanup
Aqueous/Solids	EPA 3665A	Acid clean up	Extractable Cleanup
Aqueous/Solids	ASTM D3590-89	Digestion	TKN
Solids	EPA 9013	Midi-Distillation	Cyanides

LABORATORY ACCREDITATION BUREAU

Certificate # L2336

Scope of Accreditation For TestAmerica Burlington

30 Community Drive, Suite 11
South Burlington, VT 05403
Kirstin Daigle
802-660-1990

In recognition of a successful assessment to ISO/IEC 17025:2005 and the requirements of the DoD Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in the DoD Quality Systems Manual for Environmental Laboratories (DoD QSM v4.2) based on the National Environmental Laboratory Accreditation Conference Chapter 5 Quality Systems Standard (NELAC Voted Revision June 5, 2003), accreditation is granted to TestAmerica Burlington to perform the following tests:

Accreditation granted through: **October 26, 2013**

Testing - Environmental

Non-Potable Water		
Technology	**Method**	**Analyte**
GC/FID	EPA RSK-175	Methane
GC/FID	EPA RSK-175	Ethane
GC/FID	EPA RSK-175	Ethene
GC/TCD	EPA RSK-175	Carbon Dioxide
HPLC	EPA 6850	Perchlorate
HPLC	EPA 8330B	1,3,5-Trinitrobenzene
HPLC	EPA 8330B	1,3-Dinitrobenzene
HPLC	EPA 8330B	2,4,6-Trinitrophenol
HPLC	EPA 8330B	2,4,6-Trinitrotoluene
HPLC	EPA 8330B	2,4-diamino-6-nitrotoluene
HPLC	EPA 8330B	2,4-Dinitrotoluene
HPLC	EPA 8330B	2,6-diamino-4-nitrotoluene
HPLC	EPA 8330B	2,6-Dinitrotoluene
HPLC	EPA 8330B	2-Amino-4,6-dinitrotoluene
HPLC	EPA 8330B	4-Amino-2,6-dinitrotoluene
HPLC	EPA 8330B	HMX
HPLC	EPA 8330B	m-Nitrotoluene
HPLC	EPA 8330B	Nitrobenzene
HPLC	EPA 8330B	Nitroglycerin
HPLC	EPA 8330B	o-Nitrotoluene
HPLC	EPA 8330B	PETN

Non-Potable Water

Technology	Method	Analyte
HPLC	EPA 8330B	p-Nitrotoluene
HPLC	EPA 8330B	RDX
HPLC	EPA 8330B	Tetryl
GC/MS	EPA 8260B	1,1,1,2-Tetrachloroethane
GC/MS	EPA 8260B	1,1,1-Trichloroethane
GC/MS	EPA 8260B	1,1,2,2-Tetrachloroethane
GC/MS	EPA 8260B	1,1,2-Trichloroethane
GC/MS	EPA 8260B	1,1-Dichloroethane
GC/MS	EPA 8260B	1,1-Dichloroethene
GC/MS	EPA 8260B	1,1-Dichloropropene
GC/MS	EPA 8260B	1,2,3-Trichlorobenzene
GC/MS	EPA 8260B	1,2,3-Trichloropropane
GC/MS	EPA 8260B	1,2,4-Trichlorobenzene
GC/MS	EPA 8260B	1,2,4-Trimethylbenzene
GC/MS	EPA 8260B	1,2-Dibromo-3-Chloropropane
GC/MS	EPA 8260B	1,2-Dibromoethane
GC/MS	EPA 8260B	1,2-Dichlorobenzene
GC/MS	EPA 8260B	1,2-Dichloroethane
GC/MS	EPA 8260B	1,2-Dichloroethene, Total
GC/MS	EPA 8260B	1,2-Dichloropropane
GC/MS	EPA 8260B	1,3,5-Trimethylbenzene
GC/MS	EPA 8260B	1,3-Dichlorobenzene
GC/MS	EPA 8260B	1,3-Dichloropropane
GC/MS	EPA 8260B	1,4-Dichlorobenzene
GC/MS	EPA 8260B	1,4-Dioxane
GC/MS	EPA 8260B	2,2-Dichloropropane
GC/MS	EPA 8260B	2-Butanone
GC/MS	EPA 8260B	2-Chloroethyl vinyl ether
GC/MS	EPA 8260B	2-Chlorotoluene
GC/MS	EPA 8260B	2-Hexanone
GC/MS	EPA 8260B	4-Chlorotoluene
GC/MS	EPA 8260B	4-Isopropyltoluene
GC/MS	EPA 8260B	4-Methyl-2-pentanone
GC/MS	EPA 8260B	Acetone
GC/MS	EPA 8260B	Benzene
GC/MS	EPA 8260B	Bromochloromethane
GC/MS	EPA 8260B	Bromodichloromethane
GC/MS	EPA 8260B	Bromoform
GC/MS	EPA 8260B	Bromomethane
GC/MS	EPA 8260B	Carbon disulfide
GC/MS	EPA 8260B	Carbon tetrachloride

Non-Potable Water

Technology	Method	Analyte
GC/MS	EPA 8260B	Chlorobenzene
GC/MS	EPA 8260B	Chloroethane
GC/MS	EPA 8260B	Chloroform
GC/MS	EPA 8260B	Chloromethane
GC/MS	EPA 8260B	cis-1,2-Dichloroethene
GC/MS	EPA 8260B	cis-1,3-Dichloropropene
GC/MS	EPA 8260B	Cyclohexane
GC/MS	EPA 8260B	Dibromochloromethane
GC/MS	EPA 8260B	Dibromomethane
GC/MS	EPA 8260B	Dichlorodifluoromethane
GC/MS	EPA 8260B	Ethylbenzene
GC/MS	EPA 8260B	Freon TF
GC/MS	EPA 8260B	Hexachlorobutadiene
GC/MS	EPA 8260B	Isobutyl alcohol
GC/MS	EPA 8260B	Isopropylbenzene
GC/MS	EPA 8260B	m&p-Xylene
GC/MS	EPA 8260B	Methyl acetate
GC/MS	EPA 8260B	Methyl iodide
GC/MS	EPA 8260B	Methyl t-butyl ether
GC/MS	EPA 8260B	Methylcyclohexane
GC/MS	EPA 8260B	Methylene Chloride
GC/MS	EPA 8260B	Naphthalene
GC/MS	EPA 8260B	n-Butylbenzene
GC/MS	EPA 8260B	n-Propylbenzene
GC/MS	EPA 8260B	o-Xylene
GC/MS	EPA 8260B	sec-Butylbenzene
GC/MS	EPA 8260B	Styrene
GC/MS	EPA 8260B	tert-Butylbenzene
GC/MS	EPA 8260B	Tetrachloroethene
GC/MS	EPA 8260B	Tetrahydrofuran
GC/MS	EPA 8260B	Toluene
GC/MS	EPA 8260B	trans-1,2-Dichloroethene
GC/MS	EPA 8260B	trans-1,3-Dichloropropene
GC/MS	EPA 8260B	Trichloroethene
GC/MS	EPA 8260B	Trichlorofluoromethane
GC/MS	EPA 8260B	Vinyl acetate
GC/MS	EPA 8260B	Vinyl chloride
GC/MS	EPA 8260B	Xylenes, Total
ICP-AES	EPA 6010C	Aluminum
ICP-AES	EPA 6010C	Antimony
ICP-AES	EPA 6010C	Boron

Non-Potable Water

Technology	Method	Analyte
ICP-AES	EPA 6010C	Beryllium
ICP-AES	EPA 6010C	Cadmium
ICP-AES	EPA 6010C	Calcium
ICP-AES	EPA 6010C	Cobalt
ICP-AES	EPA 6010C	Copper
ICP-AES	EPA 6010C	Iron
ICP-AES	EPA 6010C	Lead
ICP-AES	EPA 6010C	Magnesium
ICP-AES	EPA 6010C	Manganese
ICP-AES	EPA 6010C	Nickel
ICP-AES	EPA 6010C	Molybdenum
ICP-AES	EPA 6010C	Potassium
ICP-AES	EPA 6010C	Selenium
ICP-AES	EPA 6010C	Silver
ICP-AES	EPA 6010C	Sodium
ICP-AES	EPA 6010C	Thallium
ICP-AES	EPA 6010C	Vanadium
ICP-AES	EPA 6010C	Zinc
Combustion	EPA 9060A	Total Organic Carbon

Solid and Chemical Materials

Technology	Method	Analyte
HPLC	EPA 6850	Perchlorate
HPLC	EPA 8330B	1,3,5-Trinitrobenzene
HPLC	EPA 8330B	1,3-Dinitrobenzene
HPLC	EPA 8330B	2,4,6-Trinitrophenol
HPLC	EPA 8330B	2,4,6-Trinitrotoluene
HPLC	EPA 8330B	2,4-diamino-6-nitrotoluene
HPLC	EPA 8330B	2,4-Dinitrotoluene
HPLC	EPA 8330B	2,6-diamino-4-nitrotoluene
HPLC	EPA 8330B	2,6-Dinitrotoluene
HPLC	EPA 8330B	2-Amino-4,6-dinitrotoluene
HPLC	EPA 8330B	4-Amino-2,6-dinitrotoluene
HPLC	EPA 8330B	HMX
HPLC	EPA 8330B	m-Nitrotoluene
HPLC	EPA 8330B	Nitrobenzene
HPLC	EPA 8330B	Nitroglycerin
HPLC	EPA 8330B	o-Nitrotoluene
HPLC	EPA 8330B	PETN

Solid and Chemical Materials

Technology	Method	Analyte
HPLC	EPA 8330B	p-Nitrotoluene
HPLC	EPA 8330B	RDX
HPLC	EPA 8330B	Tetryl
GC/MS	EPA 8260B	1,1,1,2-Tetrachloroethane
GC/MS	EPA 8260B	1,1,1-Trichloroethane
GC/MS	EPA 8260B	1,1,2,2-Tetrachloroethane
GC/MS	EPA 8260B	1,1,2-Trichloroethane
GC/MS	EPA 8260B	1,1-Dichloroethane
GC/MS	EPA 8260B	1,1-Dichloroethene
GC/MS	EPA 8260B	1,1-Dichloropropene
GC/MS	EPA 8260B	1,2,3-Trichlorobenzene
GC/MS	EPA 8260B	1,2,3-Trichloropropane
GC/MS	EPA 8260B	1,2,4-Trichlorobenzene
GC/MS	EPA 8260B	1,2,4-Trimethylbenzene
GC/MS	EPA 8260B	1,2-Dibromo-3-Chloropropane
GC/MS	EPA 8260B	1,2-Dibromoethane
GC/MS	EPA 8260B	1,2-Dichlorobenzene
GC/MS	EPA 8260B	1,2-Dichloroethane
GC/MS	EPA 8260B	1,2-Dichloroethene, Total
GC/MS	EPA 8260B	1,2-Dichloropropane
GC/MS	EPA 8260B	1,3,5-Trimethylbenzene
GC/MS	EPA 8260B	1,3-Dichlorobenzene
GC/MS	EPA 8260B	1,3-Dichloropropane
GC/MS	EPA 8260B	1,4-Dichlorobenzene
GC/MS	EPA 8260B	1,4-Dioxane
GC/MS	EPA 8260B	2,2-Dichloropropane
GC/MS	EPA 8260B	2-Butanone
GC/MS	EPA 8260B	2-Chloroethyl vinyl ether
GC/MS	EPA 8260B	2-Chlorotoluene
GC/MS	EPA 8260B	2-Hexanone
GC/MS	EPA 8260B	4-Chlorotoluene
GC/MS	EPA 8260B	4-Isopropyltoluene
GC/MS	EPA 8260B	4-Methyl-2-pentanone
GC/MS	EPA 8260B	Acetone
GC/MS	EPA 8260B	Benzene
GC/MS	EPA 8260B	Bromochloromethane
GC/MS	EPA 8260B	Bromodichloromethane
GC/MS	EPA 8260B	Bromoform
GC/MS	EPA 8260B	Bromomethane
GC/MS	EPA 8260B	Carbon disulfide
GC/MS	EPA 8260B	Carbon tetrachloride

Solid and Chemical Materials

Technology	Method	Analyte
GC/MS	EPA 8260B	Chlorobenzene
GC/MS	EPA 8260B	Chloroethane
GC/MS	EPA 8260B	Chloroform
GC/MS	EPA 8260B	Chloromethane
GC/MS	EPA 8260B	cis-1,2-Dichloroethene
GC/MS	EPA 8260B	cis-1,3-Dichloropropene
GC/MS	EPA 8260B	Cyclohexane
GC/MS	EPA 8260B	Dibromochloromethane
GC/MS	EPA 8260B	Dibromomethane
GC/MS	EPA 8260B	Dichlorodifluoromethane
GC/MS	EPA 8260B	Ethylbenzene
GC/MS	EPA 8260B	Freon TF
GC/MS	EPA 8260B	Hexachlorobutadiene
GC/MS	EPA 8260B	Isobutyl alcohol
GC/MS	EPA 8260B	Isopropylbenzene
GC/MS	EPA 8260B	m&p-Xylene
GC/MS	EPA 8260B	Methyl acetate
GC/MS	EPA 8260B	Methyl iodide
GC/MS	EPA 8260B	Methyl t-butyl ether
GC/MS	EPA 8260B	Methylcyclohexane
GC/MS	EPA 8260B	Methylene Chloride
GC/MS	EPA 8260B	Naphthalene
GC/MS	EPA 8260B	n-Butylbenzene
GC/MS	EPA 8260B	n-Propylbenzene
GC/MS	EPA 8260B	o-Xylene
GC/MS	EPA 8260B	sec-Butylbenzene
GC/MS	EPA 8260B	Styrene
GC/MS	EPA 8260B	tert-Butylbenzene
GC/MS	EPA 8260B	Tetrachloroethene
GC/MS	EPA 8260B	Tetrahydrofuran
GC/MS	EPA 8260B	Toluene
GC/MS	EPA 8260B	trans-1,2-Dichloroethene
GC/MS	EPA 8260B	trans-1,3-Dichloropropene
GC/MS	EPA 8260B	Trichloroethene
GC/MS	EPA 8260B	Trichlorofluoromethane
GC/MS	EPA 8260B	Vinyl acetate
GC/MS	EPA 8260B	Vinyl chloride
GC/MS	EPA 8260B	Xylenes, Total
ICP-AES	EPA 6010C	Aluminum
ICP-AES	EPA 6010C	Antimony
ICP-AES	EPA 6010C	Boron

Solid and Chemical Materials

Technology	Method	Analyte
ICP-AES	EPA 6010C	Beryllium
ICP-AES	EPA 6010C	Cadmium
ICP-AES	EPA 6010C	Calcium
ICP-AES	EPA 6010C	Cobalt
ICP-AES	EPA 6010C	Copper
ICP-AES	EPA 6010C	Iron
ICP-AES	EPA 6010C	Lead
ICP-AES	EPA 6010C	Magnesium
ICP-AES	EPA 6010C	Manganese
ICP-AES	EPA 6010C	Nickel
ICP-AES	EPA 6010C	Molybdenum
ICP-AES	EPA 6010C	Potassium
ICP-AES	EPA 6010C	Selenium
ICP-AES	EPA 6010C	Silver
ICP-AES	EPA 6010C	Sodium
ICP-AES	EPA 6010C	Thallium
ICP-AES	EPA 6010C	Vanadium
ICP-AES	EPA 6010C	Zinc

Air and Emissions

Technology	Method	Analyte
GC/MS	TO15	1,1,1-Trichloroethane
GC/MS	TO15	1,1,2,2-Tetrachloroethane
GC/MS	TO15	1,1,2-Trichloroethane
GC/MS	TO15	1,1-Dichloroethane
GC/MS	TO15	1,1-Dichloroethene
GC/MS	TO15	1,2,4-Trichlorobenzene
GC/MS	TO15	1,2,4-Trimethylbenzene
GC/MS	TO15	1,2-Dibromoethane
GC/MS	TO15	1,2-Dichlorobenzene
GC/MS	TO15	1,2-Dichloroethane
GC/MS	TO15	1,2-Dichloroethene, Total
GC/MS	TO15	1,2-Dichlorotetrafluoroethane
GC/MS	TO15	1,3,5-Trimethylbenzene
GC/MS	TO15	1,3-Butadiene
GC/MS	TO15	1,3-Dichlorobenzene
GC/MS	TO15	1,4-Dichlorobenzene
GC/MS	TO15	1,4-Dioxane
GC/MS	TO15	2,2,4-Trimethylpentane

Air and Emissions

Technology	Method	Analyte
GC/MS	TO15	2-Chlorotoluene
GC/MS	TO15	3-Chloropropene
GC/MS	TO15	4-Ethyltoluene
GC/MS	TO15	4-Isopropyltoluene
GC/MS	TO15	Acetone
GC/MS	TO15	Benzene
GC/MS	TO15	Benzyl chloride
GC/MS	TO15	Bromodichloromethane
GC/MS	TO15	Bromoethene(Vinyl Bromide)
GC/MS	TO15	Bromoform
GC/MS	TO15	Bromomethane
GC/MS	TO15	Carbon disulfide
GC/MS	TO15	Carbon tetrachloride
GC/MS	TO15	Chlorobenzene
GC/MS	TO15	Chloroethane
GC/MS	TO15	Chloroform
GC/MS	TO15	Chloromethane
GC/MS	TO15	cis-1,2-Dichloroethene
GC/MS	TO15	cis-1,3-Dichloropropene
GC/MS	TO15	Cumene
GC/MS	TO15	Cyclohexane
GC/MS	TO15	Dibromochloromethane
GC/MS	TO15	Dichlorodifluoromethane
GC/MS	TO15	Ethylbenzene
GC/MS	TO15	Freon 22
GC/MS	TO15	Freon TF
GC/MS	TO15	Hexachlorobutadiene
GC/MS	TO15	Isopropyl alcohol
GC/MS	TO15	m,p-Xylene
GC/MS	TO15	Methyl Butyl Ketone (2-Hexanone)
GC/MS	TO15	Methyl Ethyl Ketone
GC/MS	TO15	Methyl isobutyl ketone
GC/MS	TO15	Methyl methacrylate
GC/MS	TO15	Methyl tert-butyl ether
GC/MS	TO15	Methylene Chloride
GC/MS	TO15	Naphthalene
GC/MS	TO15	n-Butane
GC/MS	TO15	n-Butylbenzene
GC/MS	TO15	n-Heptane
GC/MS	TO15	n-Hexane
GC/MS	TO15	n-Propylbenzene

Air and Emissions		
Technology	**Method**	**Analyte**
GC/MS	TO15	o-Xylene-
GC/MS	TO15	sec-Butylbenzene
GC/MS	TO15	Styrene
GC/MS	TO15	tert-Butyl alcohol
GC/MS	TO15	tert-Butylbenzene
GC/MS	TO15	Tetrachloroethene
GC/MS	TO15	Tetrahydrofuran
GC/MS	TO15	Toluene
GC/MS	TO15	trans-1,2-Dichloroethene
GC/MS	TO15	trans-1,3-Dichloropropene
GC/MS	TO15	Trichloroethene
GC/MS	TO15	Trichlorofluoromethane
GC/MS	TO15	Vinyl chloride
GC/MS	TO15	Xylene, Total
Preparation	**Method**	**Type**
Digestate	EPA 3010A	Acid Digestion
Digestate	EPA 3050B	Acid Digestion
Solvent	EPA 5030B	Purge and Trap
Solvent	EPA 5035 /5035A	Purge and Trap

Notes:

1) This laboratory offers commercial testing service.

Approved by: _____ Date: October 26, 2012

R. Douglas Leonard
Chief Technical Officer

Issued: 10/26/12

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Attachment B
Final Responses to PREQB Comments

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PREQB Technical Review of

Addendum 2 to the Master Sampling and Analysis Plan

East Vieques Terrestrial UXO Sites,
Former Vieques Naval Training Range,
Vieques, Puerto Rico

General Comments

1. According to the Navy's response to PREQB's General Comment #2 and EPA's General Comment #2 on the Draft Master SAP, additional MEC activities may occur subsequent to the issuance of the Master SOP that may warrant additional samples be collected to characterize MC. If necessary, this information would be included in the SAP Addendum. Please provide clarification in this SAP Addendum if the additional MEC activities have yet occurred at each site and how the potential addition of samples will be addressed. If this has already been performed and resulted in no additional samples being required, this should also be noted in the SAP Addendum in order to prevent future questions on this issue.

   Navy Response:

   The last sentence of the second paragraph of the Executive Summary has been revised to read: "Since no additional MEC activities have occurred in these sites since issuance of the Final Master SAP, all station locations and sampling procedures are those presented in the Final Master SAP (CH2M HILL, 2012).

2. According to the Navy's response to PREQB's Page-Specific Comment # 7b and EPA's General Comment #50 on the Draft Master SAP, the NTCRAs at UXO 12 and other sites were currently ongoing at the time of the Master SAP preparation and additional samples may be necessary based on the findings. Please clarify whether these NTRCRAs have been completed and whether the results have been considered in determining the number and location of samples for these areas. If so, please include the results of the NTCRA at UXO 12 and other sites in this SAP Addendum.

   Navy Response:

   Please see the response to General Comment #1. The Final Master SAP provides the completed interim munitions removal action at UXO 12, as discussed in Worksheet #17k.

3. According to the Navy's response to PREQB's Page-Specific Comment #75, the need for additional sampling in the drainage features at UXO 12 (seen on Figure 40b) will follow the 6-step decision analysis. Please clarify whether this analysis was conducted and if additional samples will be collected in the drainage features based on this analysis. If so, please provide the results of this decision analysis and resulting number and location of samples proposed for these areas in this addendum.

   Navy Response:

   Please compare Figure 40b of the Draft Master SAP with Figure 40b of the Final Master SAP. An additional sampling unit (3DU05) was added at the confluence of the two ephemeral streams within the western portion of the decision unit in accordance with the response to EPA Comment #51 and the general concept of PREQB Page-Specific Comment #75. Please note that no additional MEC clearance activities took place subsequent to issuing the Final Master SAP, as indicated in the response to General Comment #1, above.

Page-Specific Comments

1. Executive Summary: Please add Worksheet #1: Title & Approval Page to the list of worksheets included in Addendum 2.

   Navy Response:

   For addenda that are solely laboratory-specific worksheets, Worksheet #1 will not be included. The worksheet was inadvertently included in the draft, but has been removed for the final.

2. Executive Summary and Worksheets #15:

   a. Please change the title of Worksheet #15 to Project Action Limits and Laboratory-Specific Detection/Quantitation Limits.

      Navy Response:

      All Vieques SAPs have been submitted in accordance with the format and guidance provided by the Navy. Therefore, the existing Worksheet #15 title "Reference Limits and Evaluation Tables" is correct in accordance with the Navy UFP-SAP template, which has minor differences from the UFP-QAPP Part 2A (March 2012).

   b. Worksheet 15-5: Ecological soil BSVs are presented in this table. Please reference the source of these screening values and identify the BSV acronym.

      Navy Response:

      The following notes have been added to Worksheet 15-5:

      "4. Values for protection of ecological receptors are based on DOE's Biota Concentration Guides (BCGs), http://www.hss.doe.gov/nuclearsafety/techstds/docs/standard/1153.htm

      5. BSV – Biota Screening Value"

3. Worksheet #19:

   a. According to this worksheet, sediment samples are not being analyzed for SVOCs. However, sediment is included on Worksheet #15-1. Please clarify and revise accordingly.

      Navy Response:

      Worksheet #15-1 has been corrected to remove references to sediment samples. The PQL goals have been adjusted as applicable.

   b. According to this worksheet, 2.5 grams is being used for the analysis of hexavalent chromium on the multi-incremental samples. However, according to the Navy's response to PREQB's Page-Specific Comment # 35c.iii on the Draft Master SAP as well as the final Master SAP, 10 grams would be used. Please revise accordingly.

      Navy Response:

      Worksheet #19 has been updated to reflect a preparation amount of 10g for SW-846 3060A, 7196A in SMI samples.

4. Worksheet #23:

   a. Please clarify if the laboratory SOP ANA8270SIM includes the analysis of hexachloroethane, as listed on Worksheet #15-1, as the title of this SOP includes only PAHs. If not included, please provide the citation for the SOP that will include hexachloroethane.

      Navy Response:

      Hexachloroethane analysis under this SAP addendum will be via full-scan. Therefore, Worksheet #19 has been updated to show SIM analysis on SMI samples and full-scan analysis on SS/SB samples. Worksheet #23 has been updated to show a row for APPL SOP "ANA8270." Worksheet #30 has been updated to show SIM for PAHs and full-scan for hexachloroethane.

   b. It is unclear why the analytical method for TOC has changed from the Master SAP. The Master SAP required the Lloyd Kahn method with a holding time of 14 days and the SAP Addendum is proposing the use of the Walkley Black method with a holding time of 28 days. Please update this Worksheet and Worksheet #19 to include the Lloyd Kahn method, as required in the Master SOP and EPA Region 2.

      Navy Response:

      Walkley Black, rather than Lloyd Kahn, is proposed because relatively high concentrations of TOC are expected based on the lagoon characteristics. Based on contractor and laboratory experience, Lloyd Kahn is more applicable at lower concentrations and often requires reduced aliquot sizes for samples containing high TOC concentrations, sometimes to the point that the laboratory feels they are no longer representative. The Walkley Black method is sufficient for generating the data, especially at the relatively high TOC conditions anticipated. However, upon receipt of the Walkley Black data, if the anticipated high TOC concentrations are not realized and the data deemed not meaningful, the samples will be analyzed using the Lloyd Kahn method, as stated in the Master SAP.

      Worksheet #19 has been updated to reflect a project-specific holding time of 14 days for TOC via Walkley Black.

5. Worksheets #28:

   a. Worksheets #28-2 and 28-3: In Addendum 1 for this SAP, these worksheets were included and MS/MSD samples were included on the worksheets. Please add MS/MSDs back to the worksheets for Addendum 2.

      Navy Response:

      MS/MSD was inadvertently specified for radiological analysis described within Addendum 1. MS/MSD is not performed for this analysis via alpha spectrometer and there is no requirement for them in the Master SAP. The requirement for MS/MSD on RAD and FRAD was removed for the final version of Addendum 1; therefore, it is appropriately not shown on Worksheet #28-2 and #28-3 of Addendum 2.

   b. According to the Navy's response to PREQB's Page-Specific Comment #40d on the Draft Master SAP, the SAP addenda would include the explosives surrogate recovery acceptance limits. Please provide.

      Navy Response:

      Surrogate limits (both aqueous and solid for both 8330 and 8321) have been added to Addendum 2. However, these have been added to Worksheet #15-2 and Worksheet #15-6 for better clarity.