



Portable High-Throughput Integrated Laboratory Identification System (PHILIS)

PHILIS Analysis Methods and Vehicle Mobilization Readiness Assessment

11/09/2023

CSS



CSS completed the monthly assessment of PHILIS program capability to mobilize laboratory units and operate analytical instrumentation for providing analytical support to EPA emergency response operations. The current status, effective as of the date of this report, is organized by location and vehicle. Reported readiness times are estimated, based on current information and conditions, and will be reevaluated and adjusted by prioritization, to meet emergency response program needs. Laboratory analysis capability is established using GC/MS and LC/MS/MS instrumentation and methodology for analysis of CWAs, volatile, semivolatile and nonvolatile organic contaminants in water, soil and sediment, and air (sorbent tubes).

PHILIS chemists complete the following procedures to ensure operational readiness of the laboratory instrumentation:

1. Instrument readiness is measured routinely with the evaluation of the tuning compound and a continuing calibration verification standard (CCV) on each GC/MS instrument. This evaluation is conducted for the current method being evaluated on that piece of equipment. If the CCV doesn't pass, a new standard is prepared, troubleshooting is performed and if necessary injection port maintenance is performed, if the CCV still doesn't pass, then an initial calibration is performed. In completing this evaluation, the precise capability of each instrument is known. The routine analyses include tuning (if necessary), CCV or initial calibration, method blank, laboratory control spike (LCS) and LCS duplicate (LCSD). Additionally, monthly QC samples are analyzed for volatile and semivolatile analytes.
2. On the LC/MS/MS, instrument readiness is evaluated weekly by analyzing an instrument performance check (IPC) standard, which serves as a calibration verification standard. The choice of compounds in the IPC and the LC/MS/MS conditions are based on the most recent analytical method used. If the IPC does not pass acceptance criteria, and if maintenance does not resolve the exception, then the instrument shall be re-calibrated. In completing this evaluation, the precise capability of the instrument is documented. Routine analyses include IPC or initial calibration, method blank, laboratory control spike (LCS) and LCS duplicate (LCSD).
3. Each month, data is uploaded from the QC samples (LCS and LCSD) into the LIMS. This allows the laboratories to generate current precision and accuracy data, as the LIMS performs the calculations and maintains the data files. P&A data is regenerated every six months.
4. Semivolatile analytical methods require the use of at least one extraction method procedure per sample matrix to ensure that all equipment remains in a state of readiness.
5. Completion of these procedures also keeps the analysts familiar with all methods and promotes cross training, so that any analyst is able to perform all of the tests and have demonstration of capability data current.
6. PHILIS facility management ensures that the vehicles are serviced according to the established maintenance schedule, and maintained with all necessary equipment and supplies to ensure that laboratory units are ready for deployment within 2 hours, with an ability to provide service for a minimum of 4 days, as required by PHILIS contract agreement.

This report summarizes the current operational status of PHILIS assets for each location, organized according to analytical method capability, instrument & systems, vehicles, and LIMS & communications systems.

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

**ANALYTICAL METHOD STATUS
CASTLE ROCK OPERATIONS**

Sample	Contaminant and Condition	Prep Method	Analytical Method	Estimated Time Needed for Validated Method Development	Projected Number of Samples per Day (8 hours)	Projected Number of Samples per Day (24 hours) *	Comments
Water	CWA compounds (GB,GD,HD,GF,VX)	CWA SAP	CWA SAP TOF GC/MS	Ready for sample analysis	20	40	
Soil	CWA compounds (GB,GD,HD,GF,VX)	CWA SAP	CWA SAP TOF GC/MS	Ready for sample analysis	20	40	
Wipe	CWA compounds (GB,GD,HD,GF,VX)	CWA SAP	CWA SAP TOF GC/MS	Ready for sample analysis	20	40	
Water	CWA compounds (GB,GD,HD,GF,VX)	CWA SAP	CWA SAP Quad GC/MS	Need MDL			Additional testing will be performed to evaluate performance against background interference.
Soil	CWA compounds (GB,GD,HD,GF,VX)	CWA SAP	CWA SAP Quad GC/MS	Need MDL			Additional testing will be performed to evaluate sensitivity against background interference.
Wipe	CWA compounds (GB,GD,HD,GF,VX)	CWA SAP	CWA SAP Quad GC/MS	Need MDL			Additional testing will be performed to evaluate sensitivity against background interference.
Water	† Mid/High level VOA / BTEX	SW-846 5030C	SW-846 8260D Quad	Ready for sample analysis	30	50	
Soil	† Mid/High level VOA / BTEX	SW-846 5035A	SW-846 8260D Quad	Ready for sample analysis	30	50	
Air/Sorbent Tube	CWAs in Air (HD)	TO-17/ CWA SAP	TO-17/ CWA SAP TOF / modified		20	40	Instrument is setup for cwavx liq. injections.
Water, Soil, and Wipe	CWA Degradation Compounds	ASTM D7597/E2866	LC/MS/MS Triple Quad	Ready for sample analysis	20	60	
Sediment/Soil	† Mid/High level SVOA	Micro extraction	SW-846 8270E QUAD	Ready for sample analysis	20	60	
Water	† Mid/High level SVOA	Micro Extraction	SW-846 8270E TOF or QUAD	Micro extractions (50mL) are ready for sample analysis	20	40	
Sediment/Soil	† OP Pesticides	SW-846 3545A	SW-846 8270E TOF	Micro extractions	20	40	
Water	† OP Pesticides	SW-846 3510C mod (Micro extraction method)	SW-846 8270E TOF	Micro extractions	20	40	
Drinking Water	† VOAs	524.2	524.2 Quad	Ready for sample analysis	20	50	
Air	Mustard (HD)	PCD Method	PCD Method TOF	2 months	20	~40	Waiting for AMC/CMA standard. DAMMS tubes cannot be run overnight.
Wipes, soils and waters	Opioids Fentanyl, Carfentanyl, Sulfentanil, Acetylfentanil, Alfentanil, Heroin, Remifentanil	Micro Extraction	SW-846 8270E TOF	Ready for sample analysis	20	40	Opioid wipes can be problematic via TOF due to background and wipe artifact interference. Need MDLs for waters and soils – wipes are current

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

Sample	Contaminant and Condition	Prep Method	Analytical Method	Estimated Time Needed for Validated Method Development	Projected Number of Samples per Day (8 hours)	Projected Number of Samples per Day (24 hours) *	Comments
Wipes	Opioids Fentanyl, Carfentanil, Sulfentanil, Acetylfentanil, Alfentanil, Heroin, Remifentanil	Micro Extraction	SW-846 8270E MMI Quad	MDL's and real sample viability study	20	40	MDL analyzed. Additional testing will be performed to evaluate sensitivity against background interference.
Wipes, soils and waters	Opioids Fentanyl, Carfentanil, Sulfentanil, Acetylfentanil, Alfentanil, Heroin, Remifentanil	Micro Extraction	LCMS/MS Triple Quad	Ready for sample analysis	20	60	
Water, soils, and wipes	FGAs (Novichok)	Micro Extraction	TOF	Ready for sample analysis	20	40	
Water, soils, and wipes	FGAs (Novichok)	Micro Extraction	LCMSMS Triple Quad	Ready for sample analysis.	20	40	
Acrylates in Air	Butyl acrylate Ethylhexyl acrylate	NIOSH	GCMS TOF	Ready for analysis	25	60	
Acrylates in soil	Butyl acrylate, Ethylhexyl acrylate Ethylene glycol monbutyl ether	Micro Extraction	GCMS QUAD In-house	Ready for analysis	25	60	

Notes: * Projected number of samples is subject to change based on concurrent project sample analysis requirements.

† Contaminants that are NELAP accredited

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

**ANALYTICAL METHOD STATUS
EDISON OPERATIONS**

Sample	Contaminant and Condition	Prep Method	Analytical Method	Estimated Time Needed for Validated Method Development	Projected Number of Samples per Day (8 hours)	Projected Number of Samples per Day (24 hours) *	Comments
Sediment/Soil	† PCBs	SW-846 3545A	SW-846 8082A ECD	Ready for sample analysis	20	50	
Water	† PCBs	SW-846 3510C	SW-846 8082A ECD	Ready for sample analysis	20	50	
Sediment/Soil	† Pesticides	SW-846 3545A	SW-846 8081B ECD	Ready for sample analysis	20	50	
Water	† Pesticides	SW-846 3510C	SW-846 8081B ECD	Ready for sample analysis	20	50	
Sediment/Soil	† Toxaphene	SW-846 3545A	SW-846 8081B ECD	Ready for sample analysis	20	50	
Water	† Toxaphene	SW-846 3510C	SW-846 8081B ECD	Ready for sample analysis	20	50	
Sediment/Soil	† Mid/High level SVOA	SW-846 3545A	SW-846 8270E Quad	Ready for sample analysis	20	50	
Water	† Mid/High level SVOA	SW-846 3510C	SW-846 8270E Quad	Ready for sample analysis	20	50	
Sediment/Soil	† Low-level VOAs (including BTEX)	SW-846 5035A	SW-846 8260D Quad	Ready for sample analysis	30	80	
Sediment/Soil	† Mid/high level VOA (including BTEX)	SW-846 5035A	SW-846 8260D Quad	Ready for sample analysis	30	80	
Water	† Low level VOA (including BTEX)	SW-846 5030C	SW-846 8260D Quad	Ready for sample analysis	30	80	
Water	† Mid/high level VOA (including BTEX)	SW-846 5030C	SW-846 8260D Quad	Ready for sample analysis	30	80	
Water/Soil	Screening mid/High Level VOA	SW-846 3810	SW-846 3810 Quad	Ready for sample Analysis	28	90 to 100	
Air/Sorbent Tube	† VOA	TO-17	TO-17 Quad	Ready for sample analysis.	12	40	
Water	† Diesel Range Organics	SW-846 3510C	SW-846 8015D FID	Ready for sample analysis	20	30	
Water	† Gasoline Range Organics	SW-846 5030C	SW-846 8015D FID	Ready for sample analysis	10	38	
Sediment/Soil	† Diesel Range Organics	SW-846 3545A	SW-846 8015D FID	Ready for sample analysis	20	30	
Sediment/Soil	† Gasoline Range Organics	SW-846 5035A	SW-846 8015D FID	Ready for sample analysis	10	38	
Water/Soil/Wipe	CWA	CWA SAP	CWA SAP TOF	Ready for sample analysis	20	40	

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

Sample	Contaminant and Condition	Prep Method	Analytical Method	Estimated Time Needed for Validated Method Development	Projected Number of Samples per Day (8 hours)	Projected Number of Samples per Day (24 hours) *	Comments
Air	GB,GD,HD,GF,VX	TO-17 CWA SAP	TO-17 CWA SAP Quad	Three days to develop simulants on new instrument, 2 days at CWA appropriate facility.	12	40	DAMMS tubes cannot be run overnight.
Drinking Water	† VOA	524.2	524.2 Quad	Ready for sample analysis	30	80	
Drinking Water	† EDB,TCP,DBCP	504.1	504.1 ECD	TBD	TBD	TBD	This method will be implemented pending prioritization.
Water/Soil/Wipe	GB,GB,GD,HD,GF	CWA SAP	CWA SAP TOF	Ready for sample analysis	20	40	
Water/Soil/Wipe	GB,GD,HD,GF,VX	CWA SAP	CWA SAP LVI	Ready for sample analysis	20	50	
Acrylates in Air	Butyl acrylate 2-Ethylhexyl acrylate		8270E	Pending EPA approval	20	30-40	

Note: * Projected number of samples is subject to change based on concurrent project sample analysis requirements.

† Contaminants that are NELAP accredited

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
 READINESS ASSESSMENT

**INSTRUMENT & SYSTEM STATUS
 CASTLE ROCK OPERATIONS**

Instrument/Equipment System	Analysis	Status
OI Purge & Trap GC/MS/Quad/System #10	VOA	Instrument is analyzing E Palestine soil VOC's
GC/MS-Quad System #7	SVOA	Instrument is analyzing E Palestine SVOC's
GC/MS-Quad System #9	SVOA	Instrument is operational – calibrated for Opioids. Wipe MDL analyzed. Calibrated for CWAVX. Instrument is analyzing E Palestine SVOC's
GC/MS/Quad/FPD System #5	SVOA	Appears to have a cracked transfer line
OI Purge & Trap GC/MS-Quad System #8	VOA	Calibrated for 524.2 and 8260. Instrument is analyzing E Palestine VOC samples. Analyzing E Palestine VOC's
LC/MS/MS	Herbicide	System is operational.
GC/MS BT-TOF #6	SVOA	This instrument is setup for SVOCs, FGAs and Opioids. Calibrated for SVOCs.
GC/MS BT-TOF #7	CWAs	Instrument is setup to analyze cwavx – liq inj.
GC/MS BT-TOF #5	CWAs	System is not operational.
Speed Extractors	Soil/solid extractions	Pressurized solvent extractors are set up for SVOA, fentanyl and opioid extractions.
TurboVap concentrators	Extract processing	Functional and in use.

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

**INSTRUMENT & SYSTEM STATUS
EDISON OPERATIONS**

Instrument/Equipment System	Analysis	Status
GC/MS APL01A	VOA	System is currently set up for analysis of TO-17. Method development on TO-15 will recommence when scheduling allows.
GC/MS APL01B	VOA	MDLs have been completed for 524.2 and 8260D water samples. MDLs for soils are pending. Instrument has just undergone maintenance and is currently calibrated for 524.2 waters, for 8260D aqueous samples
GC/MS APL01C	VOA	Maintenance has just been completed and the instrument is calibrated for method 8260D for low level soils but can be calibrated for 8260D aqueous samples or method 524.2
GC/MS APL01D	VOA	Instrument is calibrated for screening of VOC samples by headspace method 5021A.
GC/MS APL01E	VOA	Instrument is not currently in use pending placement in a different lab unit.
LC/MS/MS	SVOA	The instrument is currently in storage in building 238. Supporting lab has been emptied as per EPA instructions.
GC/MS APL02D	SVOA	The instrument is set up in APL02 and is functional and in use for LVI for CWA analysis. New Gerstel rail with TDU and cryofocusing units have been installed.
GC/MS APL02H	SVOA	GC/MS instrument is installed in APL02 and is set up for CWA/SIM by LVI. Calibrated for CWA by simulants and 8270E. P&A and MDL's have been completed. Instrument has just undergone maintenance and is calibrated for method 8270E.
GC/MS APL02I	SVOA	GC/MS instrument is installed in APL02 and is set up for CWA/SIM by LVI. Calibrated for CWA by simulants and 8270E. P&A and MDLs have been completed. The instrument will undergo maintenance to be calibrated for method 8270E.
LECO Pegasus BT, TOF1	SVOA	Calibrated for CWA simulants. Setting up 8270E trace level analysis method.
GC/MS APL02A	SVOA	Instrument is calibrated for DRO by 8015D. The method is certified by NELAP.
Hydrogen Generator	Parker Balston	EPA 8015D GRO/DRO.
GC/MS APL02C	VOA	Instrument is calibrated for GRO by 8015D.
GC/ECD SPA01A	SVOA	Instrument is calibrated for method 8082A.
GC/ECD SPA01B	SVOA	Instrument is calibrated for pesticides and toxaphene by method 8081B.
Fast PSE Units	Soil/solid extractions	Buchi pressurized solvent extractor units set up, and performance tested for the semivolatile methods. A new method was implemented to reduce potential for system plugging.
DryVap Unit	Extract processing	2 TurboVap and 1 DryVap units are in place and functional.
Drying oven, Precision	General	Functioning
Vortex Mixer	General	Functioning
Ultrasonic Bath #1	General	Functioning
Ultrasonic Bath #2	General	Functioning
Moisture Analyzer	General	Functioning
Top loading Balance #1	General	Functioning
Top loading Balance #2	General	Functioning
GC/MS APL02B	SVOA	Not in service. MSD is currently in storage.
Horizon SPE	Liquid extraction	Unit has been turned over to recycler for excess.
Water Treatment System	General	Out of service, EPA Milli-Q water is used. Transferred to recycler for excess.
Analytical balance	General	Out of service.

**SCREENING EQUIPMENT STATUS
CASTLE ROCK OPERATIONS**

Equipment Name	Analysis	Status
(00812) Proengin AP2Ce	CWA Screening	NOT IN USE/IN STORAGE.
Proengin AP4C (Castle Rock)	CWA Screening	Functional in SPA.
MX908	CWA/TIC Screen	Instrument in CR

**SCREENING EQUIPMENT STATUS
EDISON OPERATIONS**

Equipment Name	Analysis	Status
(00835) Proengin AP2Ce	CWA Screening	Functional, instrument verified on 03/04/20. Not in use.
Proengin AP4C S/N: F6538	CWA Screening	Instrument has been sent to Proengin for annual certification Edison.
MX908	CWA/TIC Screen	

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

**VEHICLE STATUS
CASTLE ROCK OPERATIONS**

Vehicle Name	Status	Comments
Sample Preparation Area (SPA)	Ready for deployment	The unit is ready for deployment.
PHILIS Analytical Lab (PAL)	Ready for deployment	The unit is ready for deployment.
Prevost Laboratory Unit (LU)	Ready for deployment	The unit is ready for deployment.
Ford F550 Tow Vehicle	Ready for deployment	The unit is ready for deployment.

**VEHICLE STATUS
EDISON OPERATIONS**

Vehicle Name	Status	Comments
Analytical Portable Laboratory 01 (APL01)	Ready for deployment	All scheduled maintenance is completed. DOT inspection is current. Unit is ready for deployment.
Analytical Portable Laboratory 02 (APL02)	Ready for deployment	All scheduled maintenance is completed. DOT inspection is current. Unit is ready for deployment. New rear leveling jacks have been ordered to correct a false sensor alarm.
Sample Log-in Area (SLA)	Ready for deployment	All scheduled maintenance is completed. DOT inspection is current. The unit is ready for deployment.
SPA01	Ready for deployment	All scheduled maintenance is completed. DOT inspection is current. Unit is ready for deployment.
Ford F550 #1	Ready for deployment	All scheduled maintenance is completed. DOT inspection is current. is ready
Ford F550 Box/Cold Storage truck, Sample Storage Area (SSA)	Ready for deployment	Standby compressor failed during the month of April 2022. Refrigerator can only be operated in transit mode. DOT inspection is current. The unit is ready for deployment as a tow vehicle or cargo carrier.
Ford F550 #2/SLA Tow Vehicle	Ready for deployment	All scheduled maintenance is completed. DOT inspection is current. Unit is ready for deployment.

**PORTABLE POWER STATUS
CASTLE ROCK OPERATIONS**

Vehicle Name	Status	Comments
Generator and trailer 80KW (Kohler 80REOZJD)	Ready for deployment	Trailer is operational. Generator runs as advertised. Wired to power all Labs at once
Kohler generator and trailer 60KW (Kohler 60REOZJC, EPA-5020-T)	Ready for deployment	Trailer is operational. Generator runs as advertised.
Kohler generator and trailer 50KW (Kohler 50REOZJC, EPA-5018-T)	Ready for deployment	Trailer is operational. Generator runs as advertised. Wired to power all Labs at once

**PORTABLE POWER STATUS
EDISON OPERATIONS**

Vehicle Name	Status	Comments
Kohler generator and trailer 60KW (Kohler 60REOZJC, C08380)	Ready for deployment	The trailer and generator are ready for deployment. DOT inspection is current. Cam lock panel has been installed and custom cable has been fabricated to facilitate connection to the Edison vehicles.
Kohler generator and trailer 60KW (Kohler 60REOZJC, C08381)	Ready for deployment	The trailer and generator are ready for deployment. Cam lock panel has been installed and custom cable has been fabricated to facilitate connection to the Edison vehicles. DOT inspection is current.

LIMS/COMMUNICATION SYSTEM STATUS CASTLE ROCK OPERATIONS

LIMS / Communication Items	Status	Comments
Castle Rock Building / Bay / Facility	Operational	Internet / Intranet Communications: 5G Cellular: Functioning optimally. NAS file and VM Server "N- CR": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. CR-LIMS Virtual SQL and Element Windows server VM. Operational. Peripherals and Hardware: Operational.
Analytical Lab (PAL)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Functioning optimally. Laboratory Information Management Systems (LIMS) Computers: CR: PAL: LC: Operational. CR: PAL: Master-Left: Operational. CR: PAL: Master-Right: Operational. CR: PAL: WGCMS05: Operational. CR: PAL: WGCMS07: Operational. CR: PAL: WGCMS08: Operational. CR: PAL: WGCMS09: Operational. CR: PAL: WGCMS10: Operational. NAS file and VM Server "N- PAL": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. Peripherals and Hardware: Operational.
Sample Preparation Area (SPA)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Pending. Laboratory Information Management Systems (LIMS) Computers: CR: SPA: SPAWKS01: Operational. CR: SPA: SPAWKS02: Operational. CR: SPA: SPAWKS03: Operational. NAS file and VM Server "N- SPA": Pending. LIMS NELAP Compliant Data Archive System: Pending. LIMS Virtual Server and Workstation VMs: Pending. Peripherals and Hardware: Operational.
Provost Laboratory Unit (LU)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Functioning optimally. Laboratory Information Management Systems (LIMS) Computers: CR: LU: TOF5: Operational. CR: LU: TOF6: Operational. CR: LU: TOF7: Operational. CR: LU: Master: Operational. NAS file and VM Server "N- LU": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. Peripherals and Hardware: Operational.

PHILIS ANALYSIS METHODS AND VEHICLE MOBILIZATION
READINESS ASSESSMENT

**LIMS/COMMUNICATION SYSTEM STATUS
EDISON OPERATIONS**

LIMS / Communication Items	Status	Comments
Edison Building 205 IT Server Room	Operational	Internet / Intranet Communications: Operational. Fiber optics converter to building 238: Operational. Fiber optics converter to building 209: Operational.
Edison Building 238 IT Closet	Operational	Fiber optics converter from building 205: Network to bay. Operational.
Edison Building 238 Cubicles	Operational	Intranet Systems: Operational. Laboratory Information Management Systems (LIMS) Computers: NAS file and VM Server "N- ED": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. Peripherals and Hardware: Operational.
Edison Building 238 Bay	Operational	Internet Communications: Fiber runs to building 209. Operational. Intranet Systems: Operational.
Analytical Portable Laboratory 01 (APL01)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Functioning optimally. Laboratory Information Management Systems (LIMS) Computers: ED: APL01: APL01-A: Operational. ED: APL01: APL01-B: Operational. ED: APL01: APL01-C: Operational. ED: APL01: APL01-D: Operational. ED: APL01: APL01-E: N/A ED: APL01: APL01-Master: Operational. NAS file and VM Server "N- APL01": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. Peripherals and Hardware: Operational.
Analytical Portable Laboratory 02 (APL02)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Functioning optimally. Laboratory Information Management Systems (LIMS) Computers: ED: APL02: APL02-D: Operational. ED: APL02: APL02-H: Operational. ED: APL02: APL02-I: Operational. ED: APL02: APL02-T01: Operational. ED: APL02: APL02-Master: Operational. NAS file and VM Server "N- APL02": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. Peripherals and Hardware: Operational.
Sample Log-in Area (SLA1)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Functioning optimally. Laboratory Information Management Systems (LIMS) Computers: ED: SLA1: APL02-A: Operational. ED: SLA1: APL02-C: Operational. ED: SLA1: SLA1-Master: Operational. NAS file and VM Server "N- SLA1": Operating smoothly. LIMS NELAP Compliant Data Archive System: Operational. LIMS Virtual Server and Workstation VMs: Running as expected. Peripherals and Hardware: Operational.
Sample Preparation Area 01 (SPA01)	Ready for deployment	Internet / Intranet Communications: 5G Cellular: Functioning optimally. Laboratory Information Management Systems (LIMS) Computers: ED: SPA01: SPA01-A: Online and operational. ED: SPA01: SPA01-B: Online and operational. ED: SPA01: SPA01-Master: Online and operational. NAS file and VM Server "N-SPA01": Operating smoothly. LIMS NELAP Compliant Data Archive System: Functioning without issues. LIMS Virtual Server and Workstation VMs: Running as expected.

LIMS/GLOBAL COMMUNICATION SYSTEM STATUS

LIMS / Communication Items	Status	Comments
Global	Overview	Preparing overview of instrument location change. Systems Operational.

CASTLE ROCK PHILIS OPERATIONS

Method 8260D SOP # L-A-101		8260D GCMSD Water 7/20/2023				8260D GCMSD Soil 6/21-23/2023 and 6/29-7/6/2023			
Purge Method 5030 Water and 5035 Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Dichlorodifluoromethane	75-71-8	0.73	2.0	20	46-136	1.19	5.0	20	19-148
Chloromethane	74-87-3	0.66	2.0	20	32-164	2.59	5.0	20	31-149
Vinyl Chloride	75-01-4	0.71	2.0	20	39-191	1.06	5.0	20	45-147
Bromomethane	74-83-9	0.60	2.0	20	63-145	1.06	5.0	20	43-142
Chloroethane	75-00-3	0.59	2.0	20	49-163	1.07	5.0	20	46-146
Trichlorofluoromethane	75-69-4	0.78	2.0	20	61-147	1.11	5.0	20	47-139
Acetone	67-64-1	18.98	10	20	32-176	17.80	25	20	27-191
1,1-Dichloroethene	75-35-4	6.5	2.0	20	68-132	1.3	5.0	20	46-139
t-Butyl alcohol	75-65-0	0.7	10	20	40-165	12.5	25	20	21-237
Methylene chloride	75-09-2	0.65	5.0	20	52-148	3.96	20	20	55-141
Methyl tert-butyl ether	1634-04-4	0.59	2.0	20	78-128	0.73	5.0	20	62-132
trans-1,2-Dichloroethene	156-60-5	0.64	2.0	20	76-132	1.03	5.0	20	44-144
Diisopropyl ether	108-20-3	0.51	2.0	20	65-144	0.76	5.0	20	53-137
2-Butanone	78-93-3	0.55	10	20	57-155	4.83	25	20	62-161
Ethyl tert-butyl ether	637-92-3	1.1	2.0	20	59-152	0.7	5.0	20	62-129
1,1-Dichloroethane	75-34-3	0.48	2.0	20	70-133	0.98	5.0	20	47-142
cis-1,2-Dichloroethene	156-59-2	0.6	2.0	20	69-142	0.9	5.0	20	64-129
2,2-Dichloropropane	594-20-7	0.81	2.0	20	59-146	1.02	5.0	20	61-132
Bromochloromethane	74-97-5	0.50	2.0	20	78-129	1.00	5.0	20	72-130
Chloroform	67-66-3	0.55	2.0	20	76-132	0.72	5.0	20	67-128
1,1,1-Trichloroethane	71-55-6	0.5	2.0	20	68-142	1.1	5.0	20	64-130
1,1-Dichloropropene	563-58-6	0.4	2.0	20	73-132	1.0	5.0	20	61-127
Carbon tetrachloride	56-23-5	0.5	2.0	20	72-139	1.0	5.0	20	62-130
tert-Amyl methyl ether	994-05-8	0.58	2.0	20	70-142	0.58	5.0	20	67-124
1,2-Dichloroethane	107-06-2	0.55	2.0	20	80-128	0.91	5.0	20	59-139
Benzene	71-43-2	0.44	2.0	20	60-161	0.56	5.0	20	70-124
Trichloroethene	79-01-6	0.5	2.0	20	74-130	0.7	5.0	20	60-129
1,2-Dichloropropane	78-87-5	0.46	2.0	20	80-125	0.93	5.0	20	70-124
Dibromomethane	74-95-3	0.5	2.0	20	68-136	0.7	5.0	20	65-130
Bromodichloromethane	75-27-4	0.50	10.0	20	59-151	0.72	5.0	20	61-133
4-Methyl-2-Pentanone	108-10-1	1.2	2	20	80-132	1.4	25	20	43-198
cis-1,3-Dichloropropene	10061-01-5	0.70	2.0	20	83-120	3.91	5.0	20	75-131
Toluene	108-88-3	0.49	2.0	20	80-121	1.03	5.0	20	80-120
trans-1,3-Dichloropropene	10061-02-6	0.84	10.0	20	53-160	0.64	5.0	20	80-131
1,1,2-Trichloroethane	79-00-5	0.59	2.0	20	80-120	0.97	5.0	20	80-120
2-Hexanone	591-78-6	2.13	2	20	80-121	3.86	25	20	12-240
1,3-Dichloropropane	142-28-9	0.72	2.0	20	64-133	0.93	5.0	20	80-120
Tetrachloroethene	127-18-4	0.47	2.0	20	78-129	0.99	5.0	20	78-120
Dibromochloromethane	124-48-1	0.5	2.0	20	79-120	0.8	5.0	20	80-127
1,2-Dibromoethane	106-93-4	0.82	2.0	20	78-125	0.76	5.0	20	80-123
Chlorobenzene	108-90-7	0.42	2.0	20	53-150	0.48	5.0	20	80-120
1,1,1,2-Tetrachloroethane	630-20-6	0.57	4.0	20	81-134	0.77	5.0	20	74-127
Ethyl benzene	100-41-4	0.36	2.0	20	66-127	0.34	5.0	20	71-120
m,p-Xylenes	108-38-3	0.7	6.0	20	66-129	0.8	10	20	71-120
o-Xylene	95-47-6	0.51	2.0	20	50-144	0.32	5.0	20	70-120
Xylenes, Total	NA	1.2	10.0	20		1.2	15		69-120
Styrene	100-42-5	0.47	2.0	20	61-147	0.32	5.0	20	51-130
Bromoform	75-25-2	0.54	2.0	20	50-145	0.81	5.0	20	80-143
Isopropylbenzene	98-82-8	0.41	2.0	20	5-180	0.97	5.0	20	66-120
1,1,1,2,2-Tetrachloroethane	96-18-4	0.71	2.0	20	80-128	0.93	5.0	20	49-187

CASTLE ROCK PHILIS OPERATIONS

Method 8260D SOP # L-A-101		8260D GCMSD Water 7/20/2023				8260D GCMSD Soil 6/21-23/2023 and 6/29-7/6/2023			
Purge Method 5030 Water and 5035 Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
1,2,3-Trichloropropane	96-18-4	0.68	2.0	20	71-124	0.96	5.0	20	57-179
Bromobenzene	108-86-1	0.56	2.0	20	70-133	0.86	5.0	20	80-128
n-Propylbenzene	103-65-1	0.42	2.0	20	70-137	0.85	5.0	20	77-120
2-Chlorotoluene	106-43-4	0.40	2.0	20	72-124	1.02	5.0	20	80-120
1,3,5-Trimethylbenzene	108-67-8	0.42	2.0	20	68-125	0.87	5.0	20	69-130
4-Chlorotoluene	106-43-4	0.57	2.0	20	68-135	0.81	5.0	20	79-120
tert-Butylbenzene	98-06-6	0.50	2.0	20	65-128	0.85	5.0	20	72-120
1,2,4-Trimethylbenzene	95-63-6	0.46	2.0	20	62-127	0.77	5.0	20	70-129
sec-Butylbenzene	135-98-8	0.38	2.0	20	77-120	1.08	5.0	20	73-120
p-Isopropyltoluene	99-87-6	0.44	2.0	20	80-120	0.93	5.0	20	69-121
1,3-Dichlorobenzene	541-73-1	0.38	2.0	20	68-135	0.81	5.0	20	80-120
1,4-Dichlorobenzene	106-46-7	0.41	2.0	20	80-120	0.91	5.0	20	80-120
n-Butylbenzene	104-51-8	0.45	5.0	20	58-142	0.88	5.0	20	68-128
1,2-Dichlorobenzene	95-50-1	0.48	2.0	20	76-122	0.81	5.0	20	80-120
1,2-Dibromo-3-chloropropane	96-12-8	0.51	5.0	20	80-126	1.58	10	20	38-216
1,2,4-Trichlorobenzene	120-82-1	0.72	2.0	20	51-148	0.85	10	20	75-123
Hexachlorobutadiene	87-68-3	0.45	2.0	20	75-128	1.45	5.0	20	68-135
Naphthalene	91-20-3	0.67	2.0	20		0.77	10	20	44-176
1,2,3-Trichlorobenzene	87-61-6	0.65	2.0	20		0.89	10	20	78-125

CASTLE ROCK PHILIS OPERATIONS

Method 524.2 SOP # L-A-103		524.2 GCMSD Water 4/6-8/22			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
Dichlorodifluoromethane	75-71-8	0.12	5.0	20	70-130
Chloromethane	74-87-3	0.37	1.0	20	70-130
Vinyl Chloride	75-01-4	0.16	1.0	20	70-130
Bromomethane	74-83-9	0.27	1.0	20	70-130
Chloroethane	75-00-3	0.20	2.0	20	70-130
Trichlorofluoromethane	75-69-4	0.11	1.0	20	70-130
Acetone	67-64-1		5.0	20	70-130
1,1-Dichloroethene	75-35-4	0.13	1.0	20	70-130
t-Butyl alcohol	75-65-0	0.26	5.0	20	70-130
Methylene chloride	75-09-2	2.0	5.0	20	70-130
Methyl tert-butyl ether	1634-04-4	0.11	0.50	20	70-130
trans-1,2-Dichloroethene	156-60-5	0.15	1.0	20	70-130
Diisopropyl ether	108-20-3	0.09	0.50	20	70-130
2-Butanone	78-93-3	2.5	5.0	20	70-130
Ethyl tert-butyl ether	637-92-3	0.11	0.50	20	70-130
1,1-Dichloroethane	75-34-3	0.11	0.50	20	70-130
cis-1,2-Dichloroethene	156-59-2	0.11	0.50	20	70-130
2,2-Dichloropropane	594-20-7	0.09	0.50	20	70-130
Bromochloromethane	74-97-5	0.09	0.50	20	70-130
Chloroform	67-66-3	0.10	1.0	20	70-130
1,1,1-Trichloroethane	71-55-6	0.08	0.50	20	70-130
1,1-Dichloropropene	563-58-6	0.03	0.50	20	70-130
Carbon tetrachloride	56-23-5	0.11	0.50	20	70-130
tert-Amyl methyl ether	994-05-8	2.7	0.50	20	70-130
1,2-Dichloroethane	107-06-2	0.05	0.50	20	70-130
Benzene	71-43-2	0.07	0.50	20	70-130
Trichloroethene	79-01-6	0.12	0.50	20	70-130
1,2-Dichloropropane	78-87-5	0.08	1.0	20	70-130
Dibromomethane	74-95-3	0.12	0.50	20	70-130
Bromodichloromethane	75-27-4	0.09	0.50	20	70-130
4-Methyl-2-Pentanone	108-10-1	0.54	5.00	20	70-130
cis-1,3-Dichloropropene	10061-01-5	0.11	0.50	20	70-130
Toluene	108-88-3	0.12	0.50	20	70-130
trans-1,3-Dichloropropene	10061-02-6	0.13	0.50	20	70-130
1,1,2-Trichloroethane	79-00-5	0.11	1.0	20	70-130
2-Hexanone	591-78-6	0.79	5.00	20	70-130
1,3-Dichloropropane	142-28-9	0.31	0.50	20	70-130
Tetrachloroethene	127-18-4	0.10	1.0	20	70-130
Dibromochloromethane	124-48-1	0.29	0.50	20	70-130
1,2-Dibromoethane	106-93-4	0.22	0.50	20	70-130
Chlorobenzene	108-90-7	0.15	0.50	20	70-130
1,1,1,2-Tetrachloroethane	630-20-6	0.10	0.50	20	70-130

CASTLE ROCK PHILIS OPERATIONS

Method 524.2 SOP # L-A-103		524.2 GCMSD Water 4/6-8/22			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
Ethyl benzene	100-41-4	0.07	0.50	20	70-130
m,p-Xylenes	108-38-3	0.24	0.50	20	70-130
o-Xylene	95-47-6	0.12	1.0	20	70-130
Xylenes, Total	NA		1.5		
Styrene	100-42-5	0.11	0.50	20	70-130
Bromoform	75-25-2	0.11	0.50	20	70-130
Isopropylbenzene	98-82-8	0.10	0.50	20	70-130
1,1,2,2-Tetrachloroethane	96-18-4	0.08	1.0	20	70-130
1,2,3-Trichloropropane	96-18-4	0.16	1.0	20	70-130
Bromobenzene	108-86-1	0.18	0.50	20	70-130
n-Propylbenzene	103-65-1	0.11	0.50	20	70-130
2-Chlorotoluene	106-43-4	0.11	0.50	20	70-130
1,3,5-Trimethylbenzene	108-67-8	0.12	0.50	20	70-130
4-Chlorotoluene	106-43-4	0.14	0.50	20	70-130
tert-Butylbenzene	98-06-6	0.12	0.50	20	70-130
1,2,4-Trimethylbenzene	95-63-6	0.12	0.50	20	70-130
sec-Butylbenzene	135-98-8	0.11	0.50	20	70-130
p-Isopropyltoluene	99-87-6	0.12	0.50	20	70-130
1,3-Dichlorobenzene	541-73-1	0.13	0.50	20	70-130
1,4-Dichlorobenzene	106-46-7	0.14	0.50	20	70-130
n-Butylbenzene	104-51-8	0.14	0.50	20	70-130
1,2-Dichlorobenzene	95-50-1	0.05	0.50	20	70-130
1,2-Dibromo-3-chloropropane	96-12-8	0.00	2.0	20	70-130
1,2,4-Trichlorobenzene	120-82-1	0.13	0.50	20	70-130
Hexachlorobutadiene	87-68-3	0.18	1.0	20	70-130
Naphthalene	91-20-3	0.11	1.0	20	70-130
1,2,3-Trichlorobenzene	87-61-6	0.13	1.0	20	70-130

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		Method 8270E GCMSD Water 11/22/2022				Method 8270E GCMSD Soil 8/23/23			
Water 3510 SOP # L-P-101 100 mL Water Soil 3545 SOP # L-P-200 30 grams Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
1,2,4-Trichlorobenzene	120-82-1	0.70	5	20	11-120	7.9	200	20	120-82-1
1,2-Dichlorobenzene	95-50-1	1.04	5	20	14-120	9.1	200	20	95-50-1
1,3-Dichlorobenzene	541-73-1	1.31	5	20	0-120	6.7	100	20	541-73-1
1,4-Dichlorobenzene	106-46-7	0.97	5	20	0-120	8.0	100	20	106-46-7
1-Methylnaphthalene	90-12-0	0.79	5	20	43-120	8.4	200	20	90-12-0
2,4,5-Trichlorophenol	95-95-4	1.20	5	20	0-154	12.9	100	20	95-95-4
2,4,6-Trichlorophenol	88-06-2	0.92	5	20	27-124	6.6	100	20	88-06-2
2,4-Dichlorophenol	120-83-2	0.98	5	20	0-137	9.1	200	20	120-83-2
2,4-Dimethylphenol	105-67-9	0.86	10	20	42-120	27.9	200	20	105-67-9
2,4-Dinitrophenol	51-28-5	3.68	20	20	49-133	15.0	200	20	51-28-5
2,4-Dinitrotoluene	121-14-2	0.98	10	20	55-126	9.2	200	20	121-14-2
2,6-Dinitrotoluene	606-20-2	1.66	10	20	58-134	11.2	200	20	606-20-2
2-Chloronaphthalene	91-58-7	0.94	2.5	20	45-120	10.4	200	20	91-58-7
2-Chlorophenol	95-57-8	0.53	5	20	25-120	8.1	200	20	95-57-8
2-Methyl-4,6-dinitrophenol	534-52-1	1.44	10	20	55-126	6.8	200	20	534-52-1
2-Methylnaphthalene	91-57-6	0.73	5	20	43-120	7.7	100	20	91-57-6
2-Methylphenol	95-48-7	0.83	5	20	41-120	12.2	200	20	95-48-7
2-Nitroaniline	88-74-4	1.40	10	20	0-215	11.1	100	20	88-74-4
2-Nitrophenol	88-75-5	1.14	10	20	43-120	7.5	100	20	88-75-5
3/4-Methylphenol	106-44-5	0.62	5	20	38-120	6.7	200	20	106-44-5
3-Nitroaniline	99-09-2	0.44	5	20	44-120	9.9	200	20	99-09-2
4-Bromophenyl phenyl ether	101-55-3	0.97	5	20	0-169	11.4	100	20	101-55-3
4-Chloro-3-methylphenol	59-50-7	1.22	10	20	10-144	9.4	100	20	59-50-7
4-Chloroaniline	106-47-8	0.45	2.5	20	0-125	8.6	200	20	106-47-8
4-Chlorophenyl phenyl ether	7005-72-3	0.88	5	20	0-171	10.3	200	20	7005-72-3
4-Nitroaniline	100-01-6	0.85	10	20	48-136	14.0	100	20	100-01-6
4-Nitrophenol	100-02-7	0.77	5	20	0-131	16.6	100	20	100-02-7
Acenaphthene	83-32-9	1.01	5	20	51-120	8.7	100	20	83-32-9
Acenaphthylene	208-96-8	0.86	5	20	51-120	8.6	100	20	208-96-8
Aniline	62-53-3	0.50	2.5	20	0-120	8.4	200	20	62-53-3
Anthracene	120-12-7	0.73	5	20	0-170	10.2	200	20	120-12-7
Benzo(a)anthracene	56-55-3	1.25	10	20	0-154	14.1	100	20	56-55-3
Benzo(a)pyrene	50-32-8	1.68	10	20	0-148	14.9	100	20	50-32-8
Benzo(b)fluoranthene	205-99-2	1.63	10	20	0-155	12.0	200	20	205-99-2
Benzo(g,h,i)perylene	191-24-2	2.37	10	20	0-145	14.9	100	20	191-24-2
Benzo(k)fluoranthene	207-08-9	1.90	5	20	0-153	13.1	100	20	207-08-9
Benzyl alcohol	100-51-6	0.91	5	20	0-120	14.5	200	20	100-51-6
Bis(2-chloroethoxy) methane	111-91-1	0.54	5	20	47-120	8.6	83.3	20	111-91-1
Bis(2-chloroethyl) ether	111-44-4	0.58	5	20	18-120	9.1	200	20	111-44-4
Bis(2-chloroisopropyl) ether	108-60-1	0.48	5	20	33-120	6.9	300	20	108-60-1
Bis(2-ethylhexyl) phthalate	117-81-7	9.03	10	20	0-229	13.2	100	20	117-81-7
Butyl benzyl phthalate	85-68-7	2.10	10	20	0-231	11.5	200	20	85-68-7
Carbazole	86-74-8	0.68	10	20	47-132	12.2	100	20	86-74-8
Chrysene	218-01-9	1.47	5	20	0-141	12.5	200	20	218-01-9
Dibenz(a,h)anthracene	53-70-3	0.88	10	20	0-150	14.6	200	20	53-70-3

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		Method 8270E GCMSD Water 11/22/2022				Method 8270E GCMSD Soil 8/23/23			
Water 3510 SOP # L-P-101 100 mL Water Soil 3545 SOP # L-P-200 30 grams Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Dibenzofuran	132-64-9	0.97	5	20	51-120	10.1	200	20	132-64-9
Diethyl phthalate	84-66-2	1.31	10	20	54-129	9.9	200	20	84-66-2
Dimethyl phthalate	131-11-3	1.31	10	20	55-120	10.3	100	20	131-11-3
Di-n-butyl phthalate	84-74-2	1.16	10	20	0-196	18.9	100	20	84-74-2
Di-n-octyl phthalate	117-84-0	3.55	10	20	0-186	10.6	200	20	117-84-0
Fluoranthene	206-44-0	0.98	10	20	0-142	11.4	200	20	206-44-0
Fluorene	86-73-7	0.70	5	20	52-120	10.8	200	20	86-73-7
Hexachlorobenzene	118-74-1	0.98	5	20	0-146	8.2	200	20	118-74-1
Hexachlorobutadiene	87-68-3	1.20	2.5	20	0-122	6.7	200	20	87-68-3
Hexachlorocyclopentadiene	77-47-4	1.13	5	20	0-120	7.0	200	20	77-47-4
Hexachloroethane	67-72-1	0.82	5	20	0-124	7.9	100	20	67-72-1
Indeno(1,2,3-cd)pyrene	193-39-5	3.89	10	20	0-141	14.7	100	20	193-39-5
Isophorone	78-59-1	0.84	5	20	47-120	7.7	200	20	78-59-1
Naphthalene	91-20-3	0.82	2.5	20	36-120	7.3	200	20	91-20-3
Nitrobenzene	98-95-3	0.70	5	25	41-120	6.8	200	20	98-95-3
N-Nitrosodi-n-propylamine	621-64-7	1.77	5	20	46-120	14.4	200	20	621-64-7
Pentachlorophenol	87-86-5	1.52	10	20	0-158	11.6	200	20	87-86-5
Phenanthrene	85-01-8	0.93	5	20	0-167	8.6	200	20	85-01-8
Phenol	108-95-2	0.71	2.5	20	11-120	9.1	100	20	108-95-2
Pyrene	129-00-0	1.49	10	20	0-168	11.5	200	20	129-00-0

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		Method 8270E GCMSD Pulsed Splitless Water 7/6-8/22				Method 8270E GCMSD Pulsed Splitless Soil 7/13-15/22			
Water 3510 SOP # L-P-101 100 mL Water Soil 3545 SOP # L-P-200 30 grams Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
1,2,4-Trichlorobenzene	120-82-1	0.70	2.0	20	11-120	4.2	10	20	29-120
1,2-Dichlorobenzene	95-50-1	1.0	2.0	20	14-120	4.4	10	20	25-120
1,3-Dichlorobenzene	541-73-1	1.3	2.5	20	0-120	5.6	10	20	24-120
1,4-Dichlorobenzene	106-46-7	0.97	2.5	20	0-120	4.6	10	20	25-120
1-Methylnaphthalene	90-12-0	0.79	2.5	20	43-120	3.9	10	20	32-120
2,4,5-Trichlorophenol	95-95-4	1.2	2.5	20	0-154	24	50	20	31-127
2,4,6-Trichlorophenol	88-06-2	0.92	2.5	20	27-124	6.2	25	20	31-121
2,4-Dichlorophenol	120-83-2	0.98	2.5	20	0-137	3.1	10	20	34-120
2,4-Dimethylphenol	105-67-9	0.86	2.5	20	42-120	7.7	25	20	20-120
2,4-Dinitrophenol	51-28-5	3.7	10.0	20	49-133	13	50	20	18-149
2,4-Dinitrotoluene	121-14-2	0.98	2.5	20	55-126	3.8	10	20	24-151
2,6-Dinitrotoluene	606-20-2	1.7	2.5	20	58-134	2.8	10	20	32-149
2-Chloronaphthalene	91-58-7	0.94	2.5	20	45-120	3.2	10	20	30-120
2-Chlorophenol	95-57-8	0.53	2.5	20	25-120	2.7	10	20	29-120
2-Methyl-4,6-dinitrophenol	534-52-1	1.4	5	20	55-126	11	25	20	24-140
2-Methylnaphthalene	91-57-6	0.73	2.0	20	43-120	3.8	10	20	33-120
2-Methylphenol	95-48-7	0.83	2.5	20	41-120	7.2	25	20	29-120
2-Nitroaniline	88-74-4	1.4	5	20	0-215	9.2	25	20	26-142
2-Nitrophenol	88-75-5	1.1	2.5	20	43-120	4.1	10	20	27-124
3/4-Methylphenol	106-44-5	0.62	2.5	20	38-120	3.3	10	20	30-120
3-Nitroaniline	99-09-2	0.44	2.5	20	44-120	3.8	10	20	15-140
4-Bromophenyl phenyl ether	101-55-3	0.97	2.5	20	0-169	6.0	25	20	32-127
4-Chloro-3-methylphenol	59-50-7	1.2	2.5	20	10-144	8.7	25	20	36-130
4-Chloroaniline	106-47-8	0.45	2.5	20	0-125	4.3	10	20	10-120
4-Chlorophenyl phenyl ether	7005-72-3	0.88	2.5	20	0-171	3.8	10	20	31-129
4-Nitroaniline	100-01-6	0.85	2.5	20	48-136	10	25	20	44-140
4-Nitrophenol	100-02-7	0.77	2.5	20	0-131	11	25	20	20-150
Acenaphthene	83-32-9	1.0	2.5	20	51-120	3.2	10	20	32-120
Acenaphthylene	208-96-8	0.86	2.5	20	51-120	2.2	10	20	33-124
Aniline	62-53-3	0.50	2.5	20	0-120	26	100	20	7-120
Anthracene	120-12-7	0.73	2.5	20	0-170	12	25	20	33-134
Benzo(a)anthracene	56-55-3	1.3	2.4	20	0-154	7.6	25	20	35-144
Benzo(a)pyrene	50-32-8	1.7	5	20	0-148	30	100	20	32-144
Benzo(b)fluoranthene	205-99-2	1.6	3.6	20	0-155	3.0	10	20	30-149
Benzo(g,h,i)perylene	191-24-2	2.4	5	20	0-145	54	250	20	27-139
Benzo(k)fluoranthene	207-08-9	1.9	5	20	0-153	53	250	20	25-150
Benzyl alcohol	100-51-6	0.91	2.5	20	0-120	111	250	20	30-120
Bis(2-chloroethoxy) methane	111-91-1	0.54	2.5	20	47-120	2.9	10	20	30-120
Bis(2-chloroethyl) ether	111-44-4	0.58	2.5	20	18-120	4.2	10	20	23-120
Bis(2-chloroisopropyl) ether	108-60-1	0.48	2.5	20	33-120	3.6	10	20	23-120
Bis(2-ethylhexyl) phthalate	117-81-7	9.0	10	20	0-229	16	100	20	58-136
Butyl benzyl phthalate	85-68-7	2.1	10	20	0-231	13	100	20	48-142
Carbazole	86-74-8	0.68	2.5	20	47-132	6.5	25	20	36-138
Chrysene	218-01-9	1.5	2.5	20	0-141	3.2	10	20	31-134
Dibenz(a,h)anthracene	53-70-3	0.88	2.5	20	0-150	95	250	20	32-137

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		Method 8270E GCMSD Pulsed Splitless Water 7/6-8/22				Method 8270E GCMSD Pulsed Splitless Soil 7/13-15/22			
Water 3510 SOP # L-P-101 100 mL Water Soil 3545 SOP # L-P-200 30 grams Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Dibenzofuran	132-64-9	0.97	2.5	20	51-120	3.8	10	20	31-122
Diethyl phthalate	84-66-2	1.3	2.5	20	54-129	4.2	10	20	31-147
Dimethyl phthalate	131-11-3	1.3	2.5	20	55-120	3.5	10	20	31-132
Di-n-butyl phthalate	84-74-2	1.2	2.5	20	0-196	52	250	20	43-139
Di-n-octyl phthalate	117-84-0	3.6	5.0	20	0-186	54	250	20	52-137
Fluoranthene	206-44-0	0.98	2.5	20	0-142	5.0	10	20	32-149
Fluorene	86-73-7	0.70	2.5	20	52-120	3.7	10	20	31-132
Hexachlorobenzene	118-74-1	0.98	2.5	20	0-146	4.9	10	20	33-124
Hexachlorobutadiene	87-68-3	1.2	2.5	20	0-122	4.3	10	20	28-120
Hexachlorocyclopentadiene	77-47-4	1.1	2.5	20	0-120	3.4	10	20	4-132
Hexachloroethane	67-72-1	0.82	2.5	20	0-124	5.5	25	20	25-120
Indeno(1,2,3-cd)pyrene	193-39-5	3.9	5.0	20	0-141	73	250	20	30-137
Isophorone	78-59-1	0.84	2.5	20	47-120	4.2	10	20	28-120
Naphthalene	91-20-3	0.82	2.5	20	36-120	3.7	10	20	30-120
Nitrobenzene	98-95-3	0.70	2.5	25	41-120	4.4	10	20	28-120
N-Nitrosodi-n-propylamine	621-64-7	1.8	2.5	20	46-120	41	50	20	28-121
Pentachlorophenol	87-86-5	1.5	2.5	20	0-158	7.7	25	20	16-141
Phenanthrene	85-01-8	0.93	2.5	20	0-167	10	25	20	32-128
Phenol	108-95-2	0.71	2.5	20	11-120	3.0	10	20	30-120
Pyrene	129-00-0	1.5	2.5	20	0-168	3.7	10	20	30-138

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		Method 8270E TOF Water 8/25/23				Method 8270E TOF Soil 05/17/22			
3510 SOP # L-P-101 50 mL Water 3545 SOP # L-P-200 30 grams Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	ug/L	% Recovery	ug/Kg	ug/Kg	%	% Recovery
1,2-Dichlorobenzene	95-50-1	0.19	2.0	20	5-136	0.04	100	30	47.7-120
1,3-Dichlorobenzene	541-73-1	0.18	2.0	20	5-120	0.05	100	30	44.6-120
1,4-Dichlorobenzene	106-46-7	0.19	2.0	20	5-123	0.05	100	30	44.2-120
1-Methylnaphthalene	90-12-0	0.11	2.0	20	15.8-134	1.7	100	30	45.6-120
2-Methylnaphthalene	91-57-6	0.11	2.0	20	15.3-135	2.2	100	30	49-112
Acenaphthene	83-32-9	0.14	2.0	20	35.4-120	0.33	100	30	55.6-120
Acenaphthylene	208-96-8	0.13	2.0	20	24.6-130	0.09	100	30	51.4-120
Anthracene	120-12-7	0.19	2.0	20	35.6-131	0.21	100	30	55.9-120
Benzo[a]anthracene	56-55-3	0.45	2.0	20	53.5-125	0.08	100	30	63-120
Benzo[a]pyrene	50-32-8	0.43	2.0	20	47.1-133	0.10	100	30	60.1-120
Benzo[b]fluoranthene	205-99-2	1.07	2.0	20	46.3-130	0.02	100	30	61.7-120
Benzo[ghi]perylene	191-24-2	0.54	2	20	52.3-131	0.07	600	30	65.6-120
Benzo[k]fluoranthene	207-08-9	0.38	2.0	20	42.2-143	0.05	250	37	57.3-120
Bis(2-ethylhexyl) phthalate	117-81-7		5.0	20	41.3-153		100	30	30.1-153
Butylbenzyl phthalate	85-68-7		2.0	20	52.3-129	5.0	100	30	47.2-128
Chrysene	218-01-9	1.05	2.0	20	50.2-134	0.04	100	30	62.4-120
Dibenz[a,h]anthracene	53-70-3	0.37	2.0	20	48.3-128	0.06	200	30	65.2-120
Diethyl Phthalate	84-66-2		2.0	20	46.3-135	1.8	200	30	45.3-137
Dimethyl phthalate	131-11-3	0.09	2.0	20	42.7-135	1.8	100	30	50.7-132
Di-n-butylphthalate	84-74-2		2.0	20	53.1-136		100	30	35.1-154
Di-n-octyl phthalate	117-84-0	0.05	2.0	20	17.1-146	0.16	100	30	50.9-120
Fluoranthene	206-44-0	0.58	2.0	20	52.4-130	2.7	100	30	60.9-120
Fluorene	86-73-7	0.18	2.0	20	27.3-132	0.75	100	30	57.4-120
Indeno[1,2,3-cd]pyrene	193-39-5	0.48	2.0	20	69.2-117	0.13	100	30	64.7-120
Naphthalene	91-20-3	0.14	2.0	20	12.6-134	1.7	100	30	50.2-120
Phenanthrene	85-01-8	0.47	2.0	20	36.7-131	8.7	100	30	61.6-120
Pyrene	129-00-0	0.55	2.0	20	49.9-130	0.34	100	30	63.2-120

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		Method 8270E TOF Micro Extraction liquid 8/25/23				Method 8270E TOF Micro Extraction SOIL 5/2/22 5/10/22			
Water 3510 SOP # L-P-101 Soil 3545 SOP # L-P-201		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Dimethoate	65-51-5	0.26	1.0	20	50-150	0.22	5	20	50-150
Disulfoton	298-04-4	0.21	1.0	20	50-150	12	25	20	50-150
Famphur	52-85-7	0.17	1.0	20	50-150	0.10	5	20	50-150
Methyl parathion	298-00-0	0.04	1.0	20	50-150	2.0	5	20	50-150
O,O,O - Triethyl phosphorothioate	126-68-1	0.10	1.0	20	50-150	0.21	5	20	50-150
Parathion	56-38-2	0.06	1.0	20	50-150	2.2	5	20	50-150
Phorate	298-02-2	0.07	1.0	20	50-150	0.23	5	20	50-150
Sulfotep	3689-24-5	0.04	1.0	20	50-150	0.23	5	20	50-150
Zinophos	297-97-2	0.05	1.0	20	50-150	4.7	10	20	50-150
Malathion	121-75-5	0.05	5.0	20	50-150	11	25	20	50-150

CASTLE ROCK PHILIS OPERATIONS

Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		TOF CWA WATER ANALYSIS MICRO EXTRACT 9/1/22				TOF CWA SOIL ANALYSIS MICRO EXTRACT 9/6/22 * VX - 9/14/22				TOF CWA WIPE ANALYSIS 9/8/22			
Prepared and Analyzed by EPA600-R-16-116 VX Protocol using GC/MS SOP L-A-502 and SOP L-P-107		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/kg	ug/kg	%	% Recovery	µg/Wipe	µg/Wipe	%	% Recovery
Sarin (GB)	107-44-8	0.036	0.10	30	50-150	0.061	0.10	30	50-150	0.0106	0.025	30	50-150
Soman (GD1)	96-64-0	0.081	0.20	30	50-150	0.131	0.50	30	50-150	0.00228	0.005	30	50-150
Soman (GD2)	96-64-1	0.130	0.30	30	50-150	0.147	0.50	30	50-150	0.00159	0.005	30	50-150
Soman Total (GD)	96-64-0	0.206	0.57	30	50-150	0.28	0.50	30	50-150	0.0039	0.005	30	50-150
Mustard (HD)	505-60-2	0.034	0.29	30	50-150	0.091	0.25	30	50-150	0.00293	0.005	30	50-150
Cyclosarin (GF)	329-99-7	0.253	0.57	30	50-150	0.178	0.50	30	50-150	0.00546	0.010	30	50-150
VX	50782-69-9	0.125	0.57	30	50-150	0.74	1.5	30	50-150	0.0022	0.010	30	50-150
Nitrobenzene-d5	4165-60-0	0.2	2.0	30	50-150	0.284	0.50	30	50-150	0.0050	0.010	30	50-150
Terphenyl-d14	1718-51-0	0.265	0.57	30	50-150	0.32	1.0	30	50-150	0.00845	0.010	30	50 - 150
Triphenyl phosphate	115-86-6	0.3	0.6	30	50-150	1.8	2.0	30	50-150		0.050	30	50-150

CASTLE ROCK PHILIS OPERATIONS

VX by UPLCMSMS Triple Quad		VX Wipe				VX Water 10/30/23				VX Soil 10/31/23			
		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/wipe	ug/wipe	%	% Recovery	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
VX by UPLCMSMS Triple Quad	2387496-12-8	0.000	0.01	30	10-150	0.000	0.00	30	10-150	0.033	0.100	30	10-150

CASTLE ROCK PHILIS OPERATIONS

Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		SOIL TOF				WATER TOF				Wipe TOF			
		MDL	RL	RPD	Recovery Limits	MDL	RL	RPD	Recovery Limits	MDL	RL	RPD	Recovery Limits
Compound	CAS No.	ug/Kg	ug/Kg	%	% Recovery	ug/L	ug/L	%	% Recovery	ug/wipe	ug/wipe	%	% Recovery
DMMP	756-79-6	0.095	0.50	30	40-160	0.062	0.29	30	40-160	0.0028	0.005	30	40-160
2-Chloroethyl ethyl sulfide	693-07-2	0.033	0.10	30	40-160	0.035	0.057	30	40-160	0.0016	0.002	30	40-160
DIMP	1445-75-6	0.11	0.50	30	40-160	0.093	0.29	30	40-160	0.0018	0.005	30	40-160
Dimethoate	60-51-5	0.13	1.0	30	40-160	0.15	0.57	30	40-160	0.050	0.100	30	40-160
2-Chloroethyl phenyl sulfide	5535-49-9	0.035	0.050	30	40-160	0.021	0.029	30	40-160	0.0015	0.005	30	40-160
Malathion	121-75-5	0.25	0.50	30	40-160	0.19	0.29	30	40-160	0.0077	0.010	30	40-160

CASTLE ROCK PHILIS OPERATIONS

TOF		ORAGANOPHOSPHONATE ANALYSIS WATER				ORAGANOPHOSPHONATE ANALYSIS SOIL				ORAGANOPHOSPHONATE ANALYSIS WIPES			
Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	µg/L	µg/L	%	% Recovery	µg/kg	µg/kg	%	% Recovery	ng/wipe	ng/wipe	%	% Recovery
Diisopropyl methylphosphonate	1445-75-6	28	50	30	67 - 139	39	100	30	70-130	1.1	5.0	30	70-130
Pinacolyl methylphosphonic acid	616-52-4	3.1	10	30	69 - 133	17	50	30	70-130	1.6	5.0	30	70-130
Isobutyl hydrogen methylphosphonate	1604-38-2	5.4	10	30	70 - 130	17	50	30	70-130	1.7	5.0	30	70-130
Cyclohexyl methylphosphonic acid	1932-60-1	11	20	30	70 - 130	26	50	30	70-130	2.2	5.0	30	70-130
Isopropyl methylphosphonic acid	1832-54-8	15	50	30	55 - 142	64	100	30	70-130	2.9	5.0	30	70-130
Ethyl methylphosphonic acid	1832-57-7	9.1	20	30	75 - 134	21	50	30	70-130	2.5	5.0	30	70-130
Methylphosphonic acid	1832-54-8	470	500	30	65 - 134	460	500	30	70-130	27	50	30	50-150
ETHANOLAMINES													
Triethanolamine	102-71-6									3.6	10	30	70-130
N-Ethyldiethanolamine	139-87-7									3.9	10	30	70-130
N-Methyldiethanolamine	105-59-9									3.0	10	30	70-130
Diethanolamine	111-42-2									4.1	10	30	70-130
Diethanolamine-d ₆ (surrogate)	103691-51-6											30	70-130

CASTLE ROCK PHILIS OPERATIONS

TOF		FGA Wipe 10/31/22				FGA Soil 10/26/22				FGA Water 9/1/22			
Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	Wipe (ug/wipe)	Wipe (ug/wipe)	Water (%)	Water (% Recovery)	Wipe (ug/Kg)	Wipe (ug/Kg)	Water (%)	Water (% Recovery)	Wipe (ug/L)	Wipe (ug/L)	Water (%)	Water (% Recovery)
A-230	2387496-12-8	0.0431	0.100	20	10-150	0.2400	1.000	20	10-150	0.6500	1.000	20	10-150
A-232	2387496-04-8	0.0236	0.1000	20	50-150	0.5900	1.0000	20	50-150	0.4800	1.0000	20	50-150
A-234	2387496-06-0	0.0156	0.1000	20	50-150	0.8100	1.0000	20	50-150	0.3200	1.0000	20	50-150

CASTLE ROCK PHILIS OPERATIONS

FGA by UPLCMSMS Triple Quad		FGA Wipe 6/24/21				FGA Water 9/13/21				FGA Soil 9/14/21			
		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/wipe	ug/wipe	%	% Recovery	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
A-230	2387496-12-8	0.000050	0.00015	30	10-150	0.0061	0.025	30	10-150	0.0076	0.025	30	10-150
A-232	2387496-04-8	0.000046	0.00015	30	50-150	0.0078	0.025	30	50-150	0.0036	0.025	30	50-150
A-234	2387496-06-0	0.000018	0.00015	30	50-150	0.0030	0.025	30	50-150	0.0041	0.025	30	50-150

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201 OPIOIDS BY TOF		Opioids on Wipes 2/6/23				Opioids in Water 10/1/21				Opioids in Soil 9/29/21			
Water 3510 SOP # L-P-101 Soil 3545 SOP # L-P-200		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/wipe	ug/wipe	%	% Recovery	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Heroin	561-27-3	0.092	0.200	30	50 -150	0.80	1.00	30	50 -150	0.73	2.0	30	50 -150
Remifentanyl	132539-07-2	0.012	0.030	30	50 -150	0.33	1.00	30	50 -150	0.66	2.0	30	50 -150
Acetylfentanyl	3258-84-2	0.0089	0.030	30	50 -150	0.36	1.00	30	50 -150	0.60	2.0	30	50 -150
Fentanyl	437-38-7	0.0067	0.030	30	50 -150	0.28	1.00	30	50 -150	0.73	2.0	30	50 -150
Carfentanyl	61086-44-0	0.0073	0.030	30	50 -150	0.29	1.00	30	50 -150	0.55	2.0	30	50 -150
Sulfentanyl	60561-17-3	0.0067	0.030	30	50 -150	0.33	1.00	30	50 -150	0.64	2.0	30	50 -150
Alfentanyl	69049-06-5	0.0039	0.030	30	50 -150	0.35	1.00	30	50 -150	0.57	2.0	30	50 -150

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201 OPIOIDS BY TOF		Opioids on Wipes 1/19/23			
Water 3510 SOP # L-P-101 Soil 3545 SOP # L-P-200		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/wipe	ug/wipe	%	% Recovery
Heroin	561-27-3	0.179	0.200	30	50 -150
Remifentanil	132539-07-2	0.022	0.030	30	50 -150
Acetylfentanyl	3258-84-2	0.0207	0.030	30	50 -150
Fentanyl	437-38-7	0.0184	0.030	30	50 -150
Carfentanil	61086-44-0	0.0156	0.030	30	50 -150
Sulfentanil	60561-17-3	0.0157	0.030	30	50 -150
Alfentanil	69049-06-5	0.0198	0.030	30	50 -150

PHILIS-2 Method Analysis Performance Summary 11-09-23.xlsx
ACRYLATES IN AIR-CO

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-605		Acrylates in Air Apr 14, 2023			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/m3	ug/m3	%	% Recovery
n-Butyl acrylate	141-32-2	0.114	0.30	30	50-150
2-Ethylhexyl acrylate	103-11-7	0.143	0.30	30	50-150

CASTLE ROCK PHILIS OPERATIONS

Fentanyl by UPLCMSMS SOP L-A-310		Fentanyl Opiates on Wipes 2/22/23				Fentanyl Opiates in Water 3/15/22				Fentanyl Opiates in Soil 3/22/22			
		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/wipe	ug/wipe	%	% Recovery	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Methamphetamine	300-62-9	0.0147	0.03	30	50-150								
Cocaine	50-36-2	0.0217	0.05	30	50-150								
Heroin	561-27-3	0.0114	0.030	30	50 -150	0.656	1.00	30	50 -150	1.2	3.0	30	50 -150
Remifentanyl	132539-07-2	0.00389	0.008	30	50 -150	0.158	0.25	30	50 -150	0.21	0.30	30	50 -150
Acetylfentanyl	3258-84-2	0.00033	0.001	30	50 -150	0.070	0.10	30	50 -150	0.105	0.30	30	50 -150
Fentanyl	437-38-7	0.00025	0.001	30	50 -150	0.0468	0.10	30	50 -150	0.0897	0.30	30	50 -150
Carfentanyl	61086-44-0	0.00036	0.001	30	50 -150	0.0605	0.10	30	50 -150	0.13	0.30	30	50 -150
Sulfentanyl	60561-17-3	0.00025	0.001	30	50 -150	0.0485	0.10	30	50 -150	0.0651	0.30	30	50 -150
Alfentanyl	69049-06-5	0.00018	0.001	30	50 -150	0.0606	0.10	30	50 -150	0.12	0.30	30	50 -150

CASTLE ROCK PHILIS OPERATIONS

Method 8270E SOP # L-A-201		8270E GCMSD SOIL ANALYSIS Apr 13, 2023			
Prep method: SOP # L-P-202		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/Kg	ug/Kg	%	% Recovery
n-Butyl acrylate	141-32-2	118	1000.0	30	50-150
2-Ethylhexyl acrylate	103-11-7	81	1000.0	30	50-150
Ethylene glycol mono butyl ether	111-76-2	97	5000.0	30	50-150

PHILIS-2 Method Analysis Performance Summary 11-09-23.xlsx
ACRYLATES_8260 WATER-CO

CASTLE ROCK PHILIS OPERATIONS

Method 8260D SOP # L-A-101		8260D GCMSD Water ANALYSIS July 20, 2023			
Prep method: Purge method 5030		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
n-Butyl acrylate	141-32-2	2	5.0	30	50-150
2-Ethylhexyl acrylate	103-11-7	4	10.0	30	50-150
Methyl acrylate	96-33-3	6	13.0	30	50-150

EDISON PHILUS OPERATIONS

		10/20/2023		7/11/2023		7/11/2023		10/20/2023		7/11/2023		7/11/2023							
Method 8260D SOP # L-A-101		8260D GCMSD Water						8260D GCMSD Soil				8260D GCMSD Medium Level Soil 4/1/2022							
Purge Method 5030 Water and 5035 soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	1x	50x	RL	RPD	Control Limits	MS RPD	MS			
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery	MDLs		ug/Kg	%	% Recovery	%	% Recovery			
Dichlorodifluoromethane	75-71-8	0.58	2.0	20	70.8-125	0.98	2.0	35	66.9-127	0.38	19	100	61	D-130	40.6	18.3-57.5			
Chloromethane	74-87-3	0.35	2.0	20	62.8-140	1.0	2.0	30	63.2-133	0.44	22	100	32	43.6-130	24	50.2-130			
Vinyl Chloride	75-01-4	0.40	1.0	20	72.4-136	1.1	2.0	32	67.1-131	0.50	25	100	37	33.3-130	36.1	32.7-136			
Bromomethane	74-83-9	0.36	1.0	20	74.3-126	0.7	2.0	23	71.7-129	0.58	29	100	20	41.4-135	32	26.7-175			
Chloroethane	75-00-3	0.36	1.0	21	66.6-142	0.71	2.0	24	75.1-125	0.46	23	100	53	47.1-134	30	37.9-163			
Trichlorofluoromethane	75-69-4	0.49	1.0	20	73.8-136	0.88	2.0	32	68.8-135	0.39	19	100	32	39.5-130	20	40.0-130			
1,1-Dichloroethene	75-35-4	0.52	1.0	20	66.9-141	0.92	2.0	32	70.6-129	0.37	18	50	28.3	63.8-130	20	59.8-132			
Methylene Chloride	75-09-2	0.86	5.0	20	69.6-129	4.5	5.0	20	64.2-140	1.0	51	100	31	62.0-151	22	52.5-169			
Acetone	67-64-1	3.5	10.0	20	74.4-126	9	25	29	61.6-144	1.8	89	250	20	70-133	50	56.6-164			
trans-1,2-Dichloroethene	156-60-5	0.37	1.0	20	74.9-130	1.0	2.0	21	75.5-122	0.38	19	50	24	70-130	20	62.7-135			
1,1-Dichloroethane	75-34-3	0.37	1.0	20	80-125	0.72	2.0	20	80-120	0.37	19	50	20	70-130	20	58.1-147			
Methyl tert-butyl ether	1634-04-4	0.29	1.0	20	80-123	0.69	2.0	20	80-121	0.15	7.4	50	22	70-130	20	58.3-157			
tert-Butanol	75-65-0	2.1	5.0	25	76.5-127	4.1	25	26	69.5-131	1.8	190	250							
Diisopropyl ether	108-20-3	0.35	1.0	20	80-120	0.65	2.0	20	80-123	0.24	12	50	20	70-130	20	55.8-157			
Ethyl tert-butyl ether	637-92-3	0.55	1.0	20	80-120	0.68	2.0	20	80-122	0.19	9.5	50	20.4	70-130	20	57.2-157			
tert-Amyl methyl ether	994-05-8	0.73	1.0	20	80-120	1.1	2.0	20	77.1-124	0.19	9.5	50	21.7	70-130	20	58.7-156			
cis-1,2-Dichloroethene	156-59-2	0.38	1.0	20	80-127	0.89	2.0	20	79.5-122	0.33	17	50	21	70-130	20	62.6-144			
2,2-Dichloropropane	594-20-7	0.71	1.0	20	64.6-143	0.82	2.0	27	74.1-127	0.46	23	50	20	66.5-140	20	48.8-168			
Bromochloromethane	74-97-5	0.36	1.0	20	78.5-125	0.64	2.0	20	82.4-120	0.17	8.5	50	20	70-130	20	67.4-142			
Chloroform	67-66-3	0.37	1.0	20	80-125	0.66	2.0	20	79.6-123	0.34	17	50	20	70-130	20	63.2-146			
Carbon Tetrachloride	56-23-5	0.51	1.0	20	79.8-131	0.97	2.0	29	74.5-130	0.30	15	50	27	70-130	20	55.9-138			
1,1,1-Trichloroethane	71-55-6	0.42	1.0	20	80-126	0.86	2.0	30	76.3-128	0.30	15	50	20.6	70-130	20	58.4-145			
2-Butanone	78-93-3	0.77	2.5	20	79.8-120	2.2	5.0	23	67.2-138	0.76	38	125	20	70-130	20	66.6-146			
1,1-Dichloropropene	563-58-6	0.36	1.0	20	78.8-129	0.89	2.0	24	75.6-126	0.32	16	50	21.1	70-130	20	52.1-136			
Benzene	71-43-2	0.73	1.0	20	80-125	1.1	2.0	20	80-120	0.41	21	50	20	70-130	20	63.0-133			
1,2-Dichloroethane	107-06-2	0.36	1.0	20	80-120	0.67	2.0	20	79.3-121	0.26	13	50	20	70-130	20	66.5-139			
Trichloroethene	79-01-6	0.39	1.0	20	78.2-127	1.7	2.0	25	76.9-123	0.34	17	50	24	70-130	20	56.0-147			
Dibromomethane	74-95-3	0.37	1.0	20	80-122	0.45	2.0	20	80-121	0.13	6.5	50	20	70-130	20	61.5-149			
1,2-Dichloropropane	78-87-5	0.38	1.0	20	80-123	0.72	2.0	20	80-121	0.31	16	50	20	70-130	20	56.7-150			
Bromodichloromethane	75-27-4	0.50	1.0	20	80-120	0.51	2.0	20	80-126	0.20	10	50	20	70-130	20	50.9-150			
cis-1,3-Dichloropropene	10061-01-5	0.34	1.0	20	80-122	1.0	2.0	20	80-127	0.51	26	50	20	70-130	20	54.6-149			
Toluene	108-88-3	0.38	1.0	20	80-123	0.84	2.0	20	78.3-120	0.40	20	50	20	70-130	20	59.6-145			
Tetrachloroethene	127-18-4	0.50	1.0	20	78.6-126	1.1	2.0	24	72.9-123	0.30	15	50	20	70-130	20	64.2-139			
4-Methyl-2-pentanone	108-10-1	1.7	2.5	20	80-120	2.4	5.0	22	74.7-138	0.39	20	125	20	70-130	20	56.1-168			
trans-1,3-Dichloropropene	10061-02-6	0.40	1.0	20	80-120	1.0	2.0	20	80-125	0.93	47	100	20	70-130	20	56.8-142			
1,1,2-Trichloroethane	79-00-5	0.42	1.0	20	80-120	0.58	2.0	20	78.7-126	0.16	7.0	50	20	70-130	20	59.1-151			
Dibromochloromethane	124-48-1	0.37	1.0	20	80-120	0.60	2.0	20	77.2-130	0.87	44	100	20	70-130	20	51.0-142			
1,3-Dichloropropane	142-28-9	0.36	1.0	20	80-125	0.61	2.0	20	81.3-124	0.14	7.0	50	20	70-130	20	64.4-146			
1,2-Dibromoethane	106-93-4	0.40	1.0	20	80-122	0.59	2.0	20	80-123	0.20	10	50	20	70-130	20	66.3-143			
2-Hexanone	591-78-6	1.8	2.5	20	80-124	2.6	5.0	21	72.5-136	0.5	27	125	20	70-130	20	61.4-154			
Chlorobenzene	108-90-7	0.39	1.0	20	80-120	0.79	2.0	20	80-120	0.38	19	50	20	70-130	20	62.7-146			
Ethylbenzene	100-41-4	0.34	1.0	20	80-126	0.83	2.0	21	79.4-124	0.36	18	50	20	70-130	20	60.1-150			
1,1,1,2-Tetrachloroethane	630-20-6	0.52	1.0	20	80-121	0.74	2.0	20	82.3-126	0.25	13	50	22	70-130	20	53.1-158			
m,p-Xylene	108-38-3	0.67	2.0	20	80-128	2.0	4.0	21	79-125	0.71	36	100	20	70-130	20	59.4-149			
o-Xylene	95-47-6	0.33	1.0	20	80-123	1.1	2.0	20	80-123	0.38	19	50	20	70-130	20	58.5-154			
Bromoform	75-25-2	0.89	2.0	20	80-124	0.88	2.0	20	78.1-130	0.97	49	100	20	70-130	20	51.3-138			
Styrene	100-42-5	0.45	1.0	20	80-121	1.1	2.0	20	73.2-130	0.35	18	50	20	70-130	20	62.0-157			
Isopropylbenzene	98-82-8	0.55	1.0	20	80-128	1.2	2.0	26	73-131	0.39	20	50	25	70-130	20	59.6-152			
Bromobenzene	108-86-1	0.48	1.0	20	80-120	0.64	2.0	20	80-120	0.27	14	50	20	70-130	20	65.0-142			
n-Propylbenzene	103-65-1	0.38	1.0	20	80-126	0.74	2.0	25	74.9-129	0.38	19	50	21.5	70-130	20	50.0-151			
1,1,2,2-Tetrachloroethane	96-18-4	0.39	1.0	20	80-121	0.56	2.0	20	82.3-123	0.14	7.0	50	20	70-130	23	56.9-159			
2-Chlorotoluene	106-43-4	0.37	1.0	20	80-125	1.0	2.0	20	79.6-123	0.35	18	50	21.2	70-130	20	58.00-143			
1,2,3-Trichloropropane	96-18-4	0.39	1.0	20	76.9-120	1.0	2.0	20	77-127	0.29	15	50	32	68.0-130	37	40.9-176			
1,3,5-Trimethylbenzene	108-67-8	0.48	1.0	20	80-130	1.0	2.0	21	76.2-129	0.37	19	50	21.6	70-130	20	56.2-156			
4-Chlorotoluene	106-43-4	0.35	1.0	20	80-122	0.87	2.0	21	75.7-124	0.34	17	50	31	70-130	20	53.2-154			
tert-Butylbenzene	98-06-6	0.34	1.0	20	80-127	1.2	2.0	25	75.8-129	0.36	18	50	22	70-130	20	56.5-156			
1,2,4-Trimethylbenzene	95-63-6	0.37	1.0	20	80-127	1.1	2.0	21	76.4-127	0.35	18	50	21.1	70-130	20	57.8-157			
sec-Butylbenzene	135-98-8	0.59	1.0	20	80-131	0.8	2.0	29	72.8-133	0.38	19	50	23.8	70-130	20	58.0-155			
1,3-Dichlorobenzene	99-87-6	0.37	1.0	20	80-120	0.74	2.0	20	77.6-120	0.31	16	50	20	70-130	20	62.0-148			
4-Isopropyltoluene	541-73-1	0.57	1.0	20	80-132	0.8	2.0	27	72.6-134	0.38	19	50	23	70-130	20	56.0-153			
1,4-Dichlorobenzene	106-46-7	0.37	1.0	20	80-120	0.66	2.0	20	77-118	0.33	17	50	20	70-130	20	62.7-146			
n-Butylbenzene	104-51-8	0.38	1.0	20	80-134	0.81	2.0	32	67.8-138	0.47	24	50	23	70-130	20	56.7-159			
1,2-Dichlorobenzene	95-50-1	0.66	1.0	20	80-120	0.81	2.0	20	81.1-120	0.26	13	50	20	70-130	20	57.8-155			
1,2-Dibromo-3-Chloropropane	96-12-8	0.66	2.0	20	79.6-122	1.2	2.0	20	76.5-129	0.33	17	100	24	60.6-130	20	41.0-154			
Hexachlorobutadiene	87-68-3	0.72	1.0	20	77.4-129														

EDISON PHILIS OPERATIONS

		10/20/2023	7/11/2023		7/11/2023	10/20/2023	7/11/2023		7/11/2023							
Method 8260D SOP # L-A-101		8260D GCMSD Water				8260D GCMSD Soil				8260D GCMSD Medium Level Soil 4/1/2022						
Purge Method 5030 Water and 5035 soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	1x	50x	RL	RPD	Control Limits	MS RPD	MS
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery	MDLs		ug/Kg	%	% Recovery	%	% Recovery

EDISON PHILIS OPERATIONS

Method 524.2 SOP # L-A-103		524.2 GCMSD Water 10/20/2023			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
Dichlorodifluoromethane	75-71-8	0.13	0.50	20	70-130
Chloromethane	74-87-3	0.21	0.50	20	70-130
Vinyl Chloride	75-01-4	0.12	0.50	20	70-130
Bromomethane	74-83-9	0.10	0.50	20	70-130
Chloroethane	75-00-3	0.12	0.50	20	70-130
Trichlorofluoromethane	75-69-4	0.13	0.50	20	70-130
1,1-Dichloroethene	75-35-4	0.15	0.50	20	70-130
Methylene Chloride	75-09-2	0.51	1.00	20	70-130
Acetone	67-64-1	1.1	5.00	20	70-130
trans-1,2-Dichloroethene	156-60-5	0.14	0.50	20	70-130
1,1-Dichloroethane	75-34-3	0.079	0.50	20	70-130
Methyl tert-butyl ether	1634-04-4	0.10	0.50	20	70-130
Diisopropyl ether	108-20-3	0.069	0.50	20	70-130
Ethyl tert-butyl ether	637-92-3	0.060	0.50	20	70-130
tert-Amyl methyl ether	994-05-8	0.080	0.50	20	70-130
cis-1,2-Dichloroethene	156-59-2	0.067	0.50	20	70-130
2,2-Dichloropropane	594-20-7	0.15	0.50	20	70-130
Bromochloromethane	74-97-5	0.065	0.50	20	70-130
Chloroform	67-66-3	0.058	0.50	20	70-130
Carbon Tetrachloride	56-23-5	0.09	0.50	20	70-130
1,1,1-Trichloroethane	71-55-6	0.05	0.50	20	70-130
2-Butanone	78-93-3	0.62	1.25	20	70-130
1,1-Dichloropropene	563-58-6	0.045	0.50	20	70-130
Benzene	71-43-2	0.04	0.50	20	70-130
1,2-Dichloroethane	107-06-2	0.11	0.50	20	70-130
Trichloroethene	79-01-6	0.095	0.50	20	70-130
Dibromomethane	74-95-3	0.067	0.50	20	70-130
1,2-Dichloropropane	78-87-5	0.066	0.50	20	70-130

EDISON PHILIS OPERATIONS

Method 524.2 SOP # L-A-103		524.2 GCMSD Water 10/20/2023			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
Bromodichloromethane	75-27-4	0.060	0.50	20	70-130
cis-1,3-Dichloropropene	10061-01-5	0.088	0.50	20	70-130
Toluene	108-88-3	0.035	0.50	20	70-130
Tetrachloroethene	127-18-4	0.043	0.50	20	70-130
4-Methyl-2-pentanone	108-10-1	0.67	1.25	20	70-130
trans-1,3-Dichloropropene	10061-02-6	0.09	0.50	20	70-130
1,1,2-Trichloroethane	79-00-5	0.060	0.50	20	70-130
Dibromochloromethane	124-48-1	0.07	0.50	20	70-130
1,3-Dichloropropane	142-28-9	0.042	0.50	20	70-130
1,2-Dibromoethane	106-93-4	0.038	0.50	20	70-130
2-Hexanone	591-78-6	0.65	1.25	20	70-130
Chlorobenzene	108-90-7	0.043	0.50	20	70-130
Ethylbenzene	100-41-4	0.048	0.50	20	70-130
1,1,1,2-Tetrachloroethane	630-20-6	0.056	0.50	20	70-130
m,p-Xylene	108-38-3	0.09	1.00	20	70-130
o-Xylene	95-47-6	0.047	0.50	20	70-130
Bromoform	75-25-2	0.18	0.50	20	70-130
Styrene	100-42-5	0.06	0.50	20	70-130
Isopropylbenzene	98-82-8	0.04	0.50	20	70-130
Bromobenzene	108-86-1	0.046	0.50	20	70-130
n-Propylbenzene	103-65-1	0.037	0.50	20	70-130
1,1,2,2-Tetrachloroethane	96-18-4	0.055	0.50	20	70-130
2-Chlorotoluene	106-43-4	0.036	0.50	20	70-130
1,2,3-Trichloropropane	96-18-4	0.14	0.50	20	70-130
1,3,5-Trimethylbenzene	108-67-8	0.050	0.50	20	70-130
4-Chlorotoluene	106-43-4	0.050	0.50	20	70-130
tert-Butylbenzene	98-06-6	0.11	0.50	20	70-130
1,2,4-Trimethylbenzene	95-63-6	0.17	0.50	20	70-130

EDISON PHILIS OPERATIONS

Method 524.2 SOP # L-A-103		524.2 GCMSD Water 10/20/2023			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
sec-Butylbenzene	135-98-8	0.15	0.50	20	70-130
1,3-Dichlorobenzene	99-87-6	0.055	0.50	20	70-130
4-Isopropyltoluene	541-73-1	0.18	0.50	20	70-130
1,4-Dichlorobenzene	106-46-7	0.057	0.50	20	70-130
n-Butylbenzene	104-51-8	0.12	0.50	20	70-130
1,2-Dichlorobenzene	95-50-1	0.045	0.50	20	70-130
1,2-Dibromo-3-Chloropropane	96-12-8	0.10	0.50	20	70-130
Hexachlorobutadiene	87-68-3	0.05	0.50	20	70-130
1,2,4-Trichlorobenzene	120-82-1	0.066	0.50	20	70-130
Naphthalene	91-20-3	0.05	0.50	20	70-130
1,2,3-Trichlorobenzene	87-61-6	0.073	0.50	20	70-130

EDISON PHILIS OPERATIONS

6/30/2023

10/22/2023

6/30/2023

Method 8270E SOP # L-A-201		8270E GCMSD WATER ANALYSIS SEP FUNNEL				8270E GCMSD ANALYSIS SOIL			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	µg/L	µg/L	%	% Recovery	µg/kg	µg/kg	%	% Recovery
N-Nitrosodimethylamine	62-75-9	4.8	20	30	10-130	12	67	36	39-130
Pyridine **not in LIMS**	110-86-1	3.5	20	30	4.8-120		67	30	18-130
Phenol	108-95-2	5.1	20	30	20-130	15	67	30	39-130
Aniline	62-53-3	8.1	20	40	15-130	18	67	30	20-130
Bis(2-chloroethyl) ether	111-44-4	5.8	20	30	53-130	18	67	32	21-130
2-Chlorophenol	95-57-8	5.4	20	30	48-130	19	67	30	30-130
1,3-Dichlorobenzene	541-73-1	5.5	20	30	40-130	33	67	53	19-130
1,4-Dichlorobenzene	106-46-7	6.1	20	31	42-130	29	67	48	20-130
Benzyl alcohol	100-51-6	3.9	20	30	50-130	20	67	30	47-130
1,2-Dichlorobenzene	95-50-1	5.9	20	32	44-130	18	67	45	23-130
2-Methylphenol	95-48-7	9.2	20	30	47-130	15	67	30	40-130
Bis(2-chloroisopropyl) ether	108-60-1	6.5	20	30	54-130	19	67	31	20-130
3/4-Methylphenol	106-44-5	4.6	20	30	47-130	18	67	30	47-130
N-Nitrosodi-n-propylamine	621-64-7	4.6	20	30	57-130	18	67	30	47-130
Hexachloroethane	67-72-1	5.2	20	33	36-130	27	167	52	19-130
Nitrobenzene	98-95-3	7.5	20	30	50-130	20	67	30	34-130
Isophorone	78-59-1	5.2	20	30	57-130	16	67	30	47-130
2-Nitrophenol	88-75-5	4.6	20	30	32-130	21	67	30	43-130
2,4-Dimethylphenol	105-67-9	23	50	30	57-130	20	67	30	19-130
Bis(2-chloroethoxy)methane	111-91-1	5.5	20	30	57-130	19	67	30	28-130
2,4-Dichlorophenol	120-83-2	5.6	20	30	53-130	14	67	30	56-130
1,2,4-Trichlorobenzene	120-82-1	6.1	20	32	52-130	20	67	32	28-130
Naphthalene	91-20-3	5.9	20	30	53-130	16	67	30	36-130
4-Chloroaniline	106-47-8	7.1	20	30	7-132	19	67	30	36-130
Hexachlorobutadiene	87-68-3	5.5	20	31	47-130	17	167	32	20-130
4-Chloro-3-methylphenol	59-50-7	6.1	20	30	56-130	17	67	30	66-130
2-Methylnaphthalene	91-57-6	5.5	20	30	56-130	16	67	30	49-130
1-Methylnaphthalene	90-12-0	6.0	20	30	56-130	16	67	30	50-130
Hexachlorocyclopentadiene	77-47-4	3.6	20	30	40-130	15	67	30	17-130
2,4,6-Trichlorophenol	88-06-2	3.5	20	30	58-130	18	67	30	65-130
2,4,5-Trichlorophenol	95-95-4	3.9	20	30	62-130	11	67	30	67-130
2-Chloronaphthalene	91-58-7	5.7	20	30	63-130	16	67	30	54-130
2-Nitroaniline	88-74-4	4.1	20	30	61-130	15	67	30	67-130
Dimethyl phthalate	131-11-3	5.1	20	30	62-130	8.9	67	30	69-130
2,6-Dinitrotoluene	606-20-2	3.1	50	30	41-130	14	67	30	70-130
Acenaphthylene	208-96-8	5.0	20	30	60-130	15	67	30	40-130
3-Nitroaniline	99-09-2	4.0	20	30	41-130	12	67	30	64-130
Acenaphthene	83-32-9	5.5	20	30	63-130	15	67	30	61-130
2,4-Dinitrophenol	51-28-5	140	500	30	58-130	26	333	66	18-130
4-Nitrophenol	100-02-7	27	50	30	50-130	8.7	167	30	57-130
2,4-Dinitrotoluene	121-14-2	2.3	20	30	64-130	10	67	30	70-130
Dibenzofuran	132-64-9	5.0	20	30	62-130	14	67	30	64-130
Diethylphthalate	84-66-2	5.4	50	30	66-130	84	167	30	67-130
4-Chlorophenyl phenyl ether	7005-72-3	5.8	20	30	61-130	14	67	30	67-130
Fluorene	86-73-7	4.9	20	30	63-130	11	67	30	65-130

EDISON PHILIS OPERATIONS

6/30/2023

10/22/2023

6/30/2023

Method 8270E SOP # L-A-201		8270E GCMSD WATER ANALYSIS SEP FUNNEL				8270E GCMSD ANALYSIS SOIL			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	µg/L	µg/L	%	% Recovery	µg/kg	µg/kg	%	% Recovery
4-Nitroaniline	100-01-6	3.1	50	30	70-130	11	167	30	69-130
4,6-Dinitro-2-methylphenol	534-52-1	1.7	50	30	55-130	22	167	33	46-130
N-Nitrosodiphenylamine**not in LIMS**	86-30-6	5.4	20	30	35-130		67	36	26-130
4-Bromophenyl phenyl ether	101-55-3	4.0	20	30	63-130	13	67	30	70-130
Hexachlorobenzene	118-74-1	5.1	20	30	62-130	10	67	30	69-130
Pentachlorophenol	87-86-5	4.1	20	30	55-130	22	67	30	68-130
Phenanthrene	85-01-8	5.2	20	30	62-130	11	67	30	67-130
Anthracene	120-12-7	4.4	20	30	61-130	7.6	67	30	68-130
Carbazole	86-74-8	4.3	20	30	66-130	5.5	67	30	70-130
Di-n-butyl phthalate	84-74-2	3.7	20	30	51-130	11	167	30	70-130
Fluoranthene	206-44-0	4.2	20	30	58-130	8.9	67	30	69-130
Pyrene	129-00-0	4.2	20	30	61-130	4.9	67	30	70-130
Butyl benzyl phthalate	85-68-7	2.9	50	30	56-130	14	167	30	65-130
Benz(a)anthracene	56-55-3	3.6	20	30	53-130	7.1	67	30	64-130
Chrysene	218-01-9	3.1	20	30	65-130	7.7	67	30	70-130
Bis(2-ethylhexyl) phthalate	117-81-7	5.7	50	30	67-130	22	167	30	66-130
Di-n-octyl phthalate	117-84-0	2.2	50	30	52-130	8.0	67	30	60-130
Benzo(b)fluoranthene	205-99-2	3.7	20	30	63-130	15	67	30	70-130
Benzo(k)fluoranthene	207-08-9	6.3	20	30	58-130	20	67	30	70-130
Benzo(a)pyrene	50-32-8	2.6	20	30	64-130	5.0	67	30	70-130
Indeno(1,2,3-cd)pyrene	193-39-5	7.0	20	30	67-131	18	167	30	50-151
Dibenz(a,h)anthracene	53-70-3	6.3	20	30	70-130	13	67	30	58-142
Benzo(g,h,i)perylene	191-24-2	7.5	20	30	70-130	9.1	67	30	56-141

EDISON PHILIS OPERATIONS

Method 8270E SOP # L-A-201		8270E WATER ANALYSIS SEP FUNNEL TOF 4/5/2021				8270E ANALYSIS SOIL TOF 3/30/2021			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	µg/L	µg/L	%	% Recovery	µg/kg	µg/kg	%	% Recovery
N-Nitrosodimethylamine	62-75-9	0.35	1.0	30	70-130	4.1	6.7	30	70-130
Phenol	108-95-2	0.60	1.0	30	70-130	2.3	3.3	30	70-130
Aniline	62-53-3	0.86	2.0	30	70-130	2.4	3.3	30	70-130
Bis(2-chloroethyl) ether	111-44-4	0.40	1.0	30	70-130	3.6	6.7	30	70-130
2-Chlorophenol	95-57-8	0.47	1.0	30	70-130	1.4	3.3	30	70-130
1,3-Dichlorobenzene	541-73-1	0.83	1.0	30	70-130	2.7	3.3	30	70-130
1,4-Dichlorobenzene	106-46-7	0.81	1.0	30	70-130	3.3	3.3	30	70-130
Benzyl alcohol	100-51-6	0.51	2.0	30	70-130	1.4	6.7	30	70-130
1,2-Dichlorobenzene	95-50-1	0.70	1.0	30	70-130	2.0	3.3	30	70-130
2-Methylphenol	95-48-7	0.38	1.0	30	70-130	3.8	6.7	30	70-130
Bis(2-chloroisopropyl) ether	108-60-1	0.42	1.0	30	70-130	4.2	6.7	30	70-130
3/4-Methylphenol	106-44-5	0.57	2.0	30	70-130	2.3	3.3	30	70-130
N-Nitrosodi-n-propylamine	621-64-7	1.1	2.0	30	70-130	2.4	3.3	30	70-130
Hexachloroethane	67-72-1	1.3	2.0	30	70-130	1.9	3.3	30	70-130
Nitrobenzene	98-95-3	0.41	1.0	30	70-130	1.4	3.3	30	70-130
Isophorone	78-59-1	0.39	1.0	30	70-130	2.9	3.3	30	70-130
2-Nitrophenol	88-75-5	0.38	1.0	30	70-130	2.4	3.3	30	70-130
2,4-Dimethylphenol	105-67-9	0.47	1.0	30	70-130	5.2	6.7	30	70-130
Bis(2-chloroethoxy)methane	111-91-1	0.50	1.0	30	70-130	1.7	3.3	30	70-130
2,4-Dichlorophenol	120-83-2	0.70	2.0	30	70-130	0.86	3.3	30	70-130
1,2,4-Trichlorobenzene	120-82-1	0.96	1.0	30	70-130	1.2	3.3	30	70-130
Naphthalene	91-20-3	0.49	1.0	30	70-130	1.4	3.3	30	70-130
4-Chloroaniline	106-47-8	0.89	1.0	30	70-130	2.1	3.3	30	70-130
Hexachlorobutadiene	87-68-3	1.3	2.0	30	70-130	1.6	3.3	30	70-130
4-Chloro-3-methylphenol	59-50-7	0.57	1.0	30	70-130	1.2	3.3	30	70-130
2-Methylnaphthalene	91-57-6	0.72	1.0	30	70-130	1.0	3.3	30	70-130
Hexachlorocyclopentadiene	77-47-4	1.2	2.0	30	70-130	2.5	3.3	30	70-130
2,4,6-Trichlorophenol	88-06-2	0.67	1.0	30	70-130	3.1	3.3	30	70-130
2,4,5-Trichlorophenol	95-95-4	0.62	1.0	30	70-130	2.5	3.3	30	70-130
2-Chloronaphthalene	91-58-7	0.57	1.0	30	70-130	0.60	3.3	30	70-130
2-Nitroaniline	88-74-4	6.80	10.0	30	70-130	3.3	3.3	30	70-130
Dimethyl phthalate	131-11-3	0.50	1.0	30	70-130	0.82	3.3	30	70-130
2,6-Dinitrotoluene	606-20-2	0.62	1.0	30	70-130	2.0	3.3	30	70-130
Acenaphthylene	208-96-8	0.46	1.0	30	70-130	1.5	3.3	30	70-130
3-Nitroaniline	99-09-2	6.0	10.0	30	70-130	36	67	30	70-130
Acenaphthene	83-32-9	0.47	1.0	30	70-130	1.4	3.3	30	70-130
2,4-Dinitrophenol	51-28-5	38	100.0	30	70-130	430	500	30	70-130
4-Nitrophenol	100-02-7	2.2	5.0	30	70-130	62	67	30	70-130
2,4-Dinitrotoluene	121-14-2	0.56	2.0	30	70-130	0.51	3.3	30	70-130
Dibenzofuran	132-64-9	0.34	1.0	30	70-130	0.51	3.3	30	70-130
Diethylphthalate	84-66-2	2.80	5.0	30	70-130	43	67	30	70-130
4-Chlorophenyl phenyl ether	7005-72-3	0.44	1.0	30	70-130	0.79	3.3	30	70-130
Fluorene	86-73-7	0.46	1.0	30	70-130	0.56	3.3	30	70-130
4-Nitroaniline	100-01-6	4.5	10.0	30	70-130	42	67	30	70-130
4,6-Dinitro-2-methylphenol	534-52-1	0.73	5.0	30	70-130	100	120	30	70-130

EDISON PHILIS OPERATIONS

Method 8270E SOP # L-A-201		8270E WATER ANALYSIS SEP FUNNEL TOF 4/5/2021				8270E ANALYSIS SOIL TOF 3/30/2021			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	µg/L	µg/L	%	% Recovery	µg/kg	µg/kg	%	% Recovery
N-Nitrosodiphenylamine**not in LIMS**	86-30-6			30	70-130			30	70-130
4-Bromophenyl phenyl ether	101-55-3	0.44	1.0	30	70-130	1.2	3.3	30	70-130
Hexachlorobenzene	118-74-1	0.50	1.0	30	70-130	1.9	3.3	30	70-130
Pentachlorophenol	87-86-5	0.65	5.0	30	70-130	47	67	30	70-130
Phenanthrene	85-01-8	0.47	1.0	30	70-130	1.0	3.3	30	70-130
Anthracene	120-12-7	0.34	1.0	30	70-130	1.0	3.3	30	70-130
Carbazole	86-74-8	0.34	1.0	30	70-130	1.4	3.3	30	70-130
Di-n-butyl phthalate	84-74-2	1.6	2.0	30	70-130	110	170	30	70-130
Fluoranthene	206-44-0	0.31	1.0	30	70-130	1.2	3.3	30	70-130
Pyrene	129-00-0	0.35	1.0	30	70-130	1.3	3.3	30	70-130
Butyl benzyl phthalate	85-68-7	0.38	1.0	30	70-130	4.2	6.7	30	70-130
Benz(a)anthracene	56-55-3	1.3	2.0	30	70-130	3.4	6.7	30	70-130
Chrysene	218-01-9	0.34	1.0	30	70-130	1.9	3.3	30	70-130
Bis(2-ethylhexyl) phthalate	117-81-7	1.5	2.0	30	70-130	16	17	30	70-130
Di-n-octyl phthalate	117-84-0	0.35	2.0	30	70-130	4.6	6.7	30	70-130
Benzo(b)fluoranthene	205-99-2	0.31	1.0	30	70-130	2.4	3.3	30	70-130
Benzo(k)fluoranthene	207-08-9	0.30	1.0	30	70-130	2.6	3.3	30	70-130
Benzo(a)pyrene	50-32-8	0.24	1.0	30	70-130	3.8	6.7	30	70-130
Indeno(1,2,3-cd)pyrene	193-39-5	0.54	1.0	30	70-130	3.1	3.3	30	70-130
Dibenz(a,h)anthracene	53-70-3	0.34	1.0	30	70-130	3.0	3.3	30	70-130
Benzo(g,h,i)perylene	191-24-2	0.42	1.0	30	70-130	2.7	3.3	30	70-130
1-Methylnaphthalene	90-12-0	0.57	1.0	30	70-130	0.94	3.3	30	70-130

EDISON PHILIS OPERATIONS

Pesticides by Method 8081		8081 GCECD WATER SEP FUNNEL ANALYSIS 10/27/2023				8081 GCECD SOIL ANALYSIS 10/27/2023			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30 Grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/kg	ug/kg	%	% Recovery
alpha-BHC	319-84-6	0.022	0.2	20	52-130	0.10	0.99	20	70-130
gamma-BHC	319-85-9	0.027	0.2	20	56-130	0.077	0.99	20	70-130
beta-BHC	319-85-7	0.028	0.2	20	55-130	0.12	0.99	20	45-130
delta-BHC	319-86-8	0.066	0.2	20	65-130	0.18	0.99	20	70-130
Heptachlor	76-44-8	0.021	0.2	20	53-130	0.11	0.99	20	53-132
Aldrin	309-00--2	0.015	0.2	20	38-130	0.17	0.99	20	57-130
Heptachlor epoxide	1024-57-3	0.019	0.2	20	60-130	0.15	0.99	20	54-130
trans-Chlordane	5103-74-2	0.022	0.2	20	57-130	0.18	0.99	20	70-130
cis-Chlordane	5103-71-9	0.017	0.2	20	59-130	0.088	0.99	20	52-130
4,4'-DDE	72-55-9	0.017	0.2	20	62-130	0.068	0.99	20	70-130
Endosulfan I	959-98-8	0.020	0.2	20	61-130	0.068	0.99	20	52-130
Dieldrin	60-57-1	0.023	0.2	20	61-130	0.090	0.99	20	70-130
Endrin	72-20-8	0.025	0.2	20	60-137	0.36	0.99	20	61-130
4,4'-DDD	72-54-8	0.020	0.2	20	57-132	0.062	0.99	20	69-130
Endosulfan II	33213-65-9	0.025	0.2	20	63-130	0.38	0.99	20	70-130
4,4'-DDT	50-29-3	0.021	0.2	20	67-130	0.13	0.99	20	60-130
Endrin aldehyde	7421-93-4	0.033	0.2	20	52-130	0.15	0.99	20	48-130
Endosulfan sulfate	1031-07-8	0.080	0.2	20	66-130	0.08	0.99	20	70-130
Methoxychlor	72-43-5	0.030	0.2	20	63-130	0.18	0.99	20	60-132
Endrin ketone	53494-70-5	0.030	0.2	20	60-130	0.16	0.99	20	70-130
Toxaphene	8001-35-2	0.17	0.25	20	56-130	3.5	4.17	20	55-130

EDISON PHILIS OPERATIONS

Method 8082A PCBs		8082AGCED WATER SEP FUNNEL ANALYSIS 10/27/2023				8082A GCECD SOIL ANALYSIS 10/27/2023			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30 grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Aroclor-1016	12674-11-2	0.58	2.00	30	46-130	8.7	20	30	50-138
Aroclor-1221	11104-28-2	0.50	0.50	30	60-140	8.3	8.3	30	60-140
Aroclor-1232	11141-16-5	0.50	0.50	30	60-140	8.3	8.3	30	60-140
Aroclor-1242	53469-21-9	0.50	0.50	30	60-140	8.3	8.3	30	60-140
Aroclor-1248	12672-29-6	0.50	0.50	30	60-140	8.3	8.3	30	60-140
Aroclor-1254	11097-69-1	0.50	0.50	30	60-140	8.3	8.3	30	60-140
Aroclor-1260	11096-82-5	0.24	2.00	30	56-130	2.9	20	30	53-139
Aroclor-1262	37324-23-5	0.50	0.50	30	60-140	8.3	8.3	30	60-140
Aroclor-1268	11100-14-4	0.50	0.50	30	60-140	8.3	8.3	30	60-140

EDISON PHILIS OPERATIONS

7/8/2022 11/29/2022

TO-17 GCMSD Volatile Analysis SOP L-A-601		TO-17 Air				
		MDL	RL	RPD	RPD	Control Limits
Compound	CAS No.	ppbv	ppbv	% for Duplicates	% for Distributed Volume Pairs	% Recovery
Propene	115-07-1	0.2	0.5	20	25	50 - 150
Dichlorodifluoromethane	75-71-8	0.20	0.5	20	25	50 - 150
Freon 114	76-14-1	0.12	0.2	20	25	50 - 150
Chloromethane	74-87-3	0.72	5.0	20	25	50 - 150
1,3-Butadiene	106-99-0	0.08	0.2	20	25	50 - 150
Vinyl Chloride	75-01-4	0.16	0.2	20	25	50 - 150
Bromomethane	74-83-9	0.7	1.0	20	25	50 - 150
Chloroethane	75-00-3	0.20	1.0	20	25	50 - 150
Trichlorofluoromethane	75-69-4	0.11	0.2	20	25	50 - 150
1,1-Dichloroethene	75-34-4	0.09	0.2	20	25	50 - 150
Freon 113	76-13-1	0.06	0.2	20	25	50 - 150
Isopropyl alcohol	67-63-0	0.34	1.0	20	25	50 - 150
Methylene Chloride	75-09-2	3.2	5.0	20	25	50 - 150
Acetone	67-64-1	1.9	5.0	20	25	50 - 150
trans-1,2-Dichloroethene	156-60-5	0.08	0.2	20	25	50 - 150
Hexane	110-54-3	0.04	0.2	20	25	50 - 150
Methyl tert-butyl ether	1634-04-4	0.07	0.5	20	25	50 - 150
1,1-Dichloroethane	75-34-3	0.07	0.2	20	25	50 - 150
cis-1,2-Dichloroethene	156-59-2	0.07	0.2	20	25	50 - 150
Cyclohexane	110-82-7	0.07	0.2	20	25	50 - 150
Chloroform	67-66-3	0.06	0.2	20	25	50 - 150
Carbon Tetrachloride	56-23-5	0.05	0.2	20	25	50 - 150
Ethyl acetate	141-78-6	0.08	0.2	20	25	50 - 150
1,1,1-Trichloroethane	71-55-6	0.05	0.2	20	25	50 - 150
2-butanone	78-93-3	0.09	0.2	20	25	50 - 150
Heptane	14-82-5	0.06	0.2	20	25	50 - 150
Benzene	71-43-2	0.11	0.5	20	25	50 - 150
1,2-Dichloroethane	107-06-2	0.07	0.2	20	25	50 - 150
Trichloroethene	79-01-6	0.23	0.5	20	25	50 - 150
1,2-Dichloropropane	78-87-5	0.07	0.2	20	25	50 - 150
Bromodichloromethane	75-27-4	0.06	0.2	20	25	50 - 150
1,4-Dioxane	123-91-1	0.12	0.5	20	25	50 - 150
Methyl methacrylate	80-62-6	0.09	0.5	20	25	50 - 150
cis-1,3-Dichloropropene	10061-01-5	0.06	0.2	20	25	50 - 150

EDISON PHILIS OPERATIONS

7/8/2022 11/29/2022

TO-17 GCMSD Volatile Analysis SOP L-A-601		TO-17 Air				
		MDL	RL	RPD	RPD	Control Limits
Compound	CAS No.	ppbv	ppbv	% for Duplicates	% for Distributed Volume Pairs	% Recovery
4-Methyl-2-pentanone	108-10-1	0.08	0.2	20	25	50 - 150
Toluene	108-88-3	0.15	0.5	20	25	50 - 150
trans-1,3-Dichloropropene	10061-02-6	0.06	0.2	20	25	50 - 150
1,1,2-Trichloroethane	79-00-5	0.05	0.2	20	25	50 - 150
Tetrachloroethene	127-18-4	0.06	0.2	20	25	50 - 150
2-Hexanone	591-78-6	0.10	0.2	20	25	50 - 150
Dibromochloromethane	124-48-1	0.05	0.2	20	25	50 - 150
1,2-Dibromoethane	106-93-4	0.07	0.2	20	25	50 - 150
Chlorobenzene	108-90-7	0.06	0.2	20	25	50 - 150
Ethylbenzene	100-41-4	0.05	0.5	20	25	50 - 150
m,p-Xylene	106-42-3/108-38-3	0.11	1.0	20	25	50 - 150
o-Xylene	95-47-6	0.05	0.5	20	25	50 - 150
Styrene	100-42-5	0.06	0.5	20	25	50 - 150
Bromoform	75-25-2	0.05	0.5	20	25	50 - 150
1,1,2,2-Tetrachloroethane	79-34-5	0.31	0.5	20	25	50 - 150
4-Ethyltoluene	622-96-8	0.39	0.5	20	25	50 - 150
1,3,5-Trimethylbenzene	108-67-8	0.25	0.5	20	25	50 - 150
1,2,4-Trimethylbenzene	95-63-6	0.28	0.5	20	25	50 - 150
1,3-Dichlorobenzene	541-73-1	0.32	0.5	20	25	50 - 150
1,4-Dichlorobenzene	106-46-7	0.28	0.5	20	25	50 - 150
Benzyl Chloride	100-44-7	0.5	1.0	20	25	50 - 150
1,2-Dichlorobenzene	95-90-41	0.33	0.5	20	25	50 - 150
Hexachlorobutadiene	87-68-3	0.45	0.5	20	25	50 - 150
1,2,4-Trichlorobenzene	120-82-1	0.25	0.5	20	25	50 - 150
Naphthalene	91-20-3	0.54	1.0	20	25	50 - 150

EDISON PHILIS OPERATIONS

Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		CWA ANALYSIS WATER GCMSD MMI LVI				CWA ANALYSIS SOIL GCMSD MMI LVI				CWA ANALYSIS WIPES GCMSD MMI LVI			
Prepared and Analyzed by EPA600-R-16-116 VX Protocol using GC/MS SOP L-A-502 and SOP L-P-107		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery	µg/Wipe	µg/Wipe	%	% Recovery
Sarin (GB)	107-44-8	0.16	0.57	30	50 -150	0.36	1.0	30	50 -150	0.000079	0.00025	30	50 -150
Soman (GD1)	96-64-0	0.33	0.36	30	50 -150	0.57	1.3	30	50 -150	0.00025	0.0010	30	50 -150
Soman (GD2)	96-64-1	0.31	0.36	30	50 -150	0.95	1.3	30	50 -150	0.00032	0.00050	30	50 -150
Soman Total (GD)	96-64-0	0.64	1.0	30	50 -150	1.5	2.0	30	50 -150	0.00067	0.0015	30	50 -150
Cyclohexyl Sarin (GF)	329-99-7	0.18	0.57	30	50 -150	0.22	1.0	30	50 -150	0.000059	0.00010	30	50 -150
Mustard (HD)	505-60-2	0.33	0.71	30	50 -150	0.40	0.5	30	50 -150	0.000051	0.00010	30	50 -150
VX	50782-69-9	0.66	1.4	30	50 -150	1.1	2.5	30	50 -150	0.00016	0.00050	30	50 -150

EDISON PHILIS OPERATIONS

Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		CWA ANALYSIS WIPES GC-TOF 7/16/2021			
Prepared and Analyzed by EPA600-R-16-116 VX Protocol using GC/MS SOP L-A-502 and SOP L-P-107		MDL	RL	RPD	Control Limits
Compound	CAS No.	µg/Wipe	µg/Wipe	%	% Recovery
Sarin (GB)	107-44-8	0.0037	0.005	30	50 -150
Soman (GD1)	96-64-0	0.0085	0.001	30	50 -150
Soman (GD2)	96-64-1	0.0020	0.005	30	50 -150
Soman Total (GD)	96-64-0	0.010	0.01	30	50 -150
Cyclohexyl Sarin (GF)	329-99-7	0.0044	0.005	30	50 -150
Mustard (HD)	505-60-2	0.0013	0.002	30	50 -150
VX	50782-69-9	n/a	n/a	30	50 -150

EDISON PHILIS OPERATIONS

SOP L-A-502 and SOP L-P-107		CWA SIMULANTS ANALYSIS SOIL GCMSD MMI LVI				CWA SIMULANTS ANALYSIS WATER GCMSD MMI LVI				CWA SIMULANTS ANALYSIS WIPE GCMSD MMI LVI			
Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS		MDL	RL	RPD	Recovery Limits	MDL	RL	RPD	Recovery Limits	MDL	RL	RPD	Recovery Limits
Compound	CAS No.	ug/Kg	ug/Kg	%	% Recovery	ug/L	ug/L	%	% Recovery	ng/wipe	ng/wipe	%	% Recovery
DMMP	756-79-6	1.0	2.0	30	40-160	0.10	0.57	30	40-160	0.35	0.40	30	40-160
2-Chloroethyl ethyl sulfide	693-07-2	0.94	1.0	30	40-160	3.9	5.7	30	40-160	0.42	0.80	30	40-160
DIMP	1445-75-6	1.2	2.0	30	40-160	0.39	0.57	30	40-160	0.35	0.40	30	40-160
Dimethoate	60-51-5	5.3	7.5	30	40-160	0.65	1.1	30	40-160	1.0	2.0	30	40-160
2-Chloroethyl phenyl sulfide	5535-49-9												
Malathion	121-75-5												

EDISON PHILIS OPERATIONS

Prepared and Analyzed by EPA600-R-16-115 CWA Protocol using GC/MS SOP L-A-502 and SOP L-P-107		CWA SIMULANTS WATER TOF			
		MDL	RL	RPD	Recovery Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery
DMMP	756-79-6	0.10	0.11	30	40-160
2-Chloroethyl ethyl sulfide	693-07-2	0.040	0.057	30	40-160
DIMP	1445-75-6	0.039	0.057	30	40-160
Dimethoate	60-51-5	0.21	0.29	30	40-160
2-Chloroethyl phenyl sulfide	5535-49-9	0.051	0.057	30	40-160
Malathion	121-75-5	0.19	0.29	30	40-160

EDISON PHILIS OPERATIONS

		8/8/2023				4/17/2023							
Method 8015D SOP L-A-104		8015D GCFID WATER ANALYSIS 1/25/2023				8015D GCFID Med. LEVEL SOIL ANALYSIS 1/25/2023				8015D GCFID LOW SOIL ANALYSIS 5/31/2022			
Purge Method 5030 Water and 5035 Soil		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery
Gasoline Range Organics (GRO) C6-C10	N/A	11	50	20	70-130	491	2500	20	60-140	42	100	20	60-140

EDISON PHILIS OPERATIONS

1/27/23

5/20/2023

Method 8015D SOP L-A-205		8015D/3510C GCFID WATER ANALYSIS				8015D/3545A GCFID SOIL ANALYSIS			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30Grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	mg/L	mg/L	%	% Recovery	mg/Kg	mg/Kg	%	% Recovery
Diesel Range Organics (C10-C28)	N/A	0.20	0.5	20	35-130	0.90	1.7	20	42.9-130
0-terphenyl (surro)									44.7-140

EDISON PHILIS OPERATIONS

Method 8270E SOP # L-A-201		8270E GCMSD WATER ANALYSIS 3/31/2022				8270E GCMSD SOIL ANALYSIS 3/31/2022				8270E GCMSD Wipe Analysis 7/8/2022			
Water 3510 SOP # L-P-101 100 mL Soil 3545 SOP # L-P-200 30 grams		MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits	MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/L	ug/L	%	% Recovery	ug/Kg	ug/Kg	%	% Recovery	ug/Wipe	ug/Wipe	%	% Recovery
Dimethoate	65-51-5	2	20.0	30	50-150	19	66.7	30	50-150				
Disulfoton	298-04-4	6	20.0	30	50-150	11	66.7	30	50-150				
Famphur	52-85-7	2	20.0	30	50-150	8	66.7	30	50-150				
Methyl parathion	298-00-0	4	20.0	30	50-150	7	66.7	30	50-150				
O,O,O - Triethyl phosphorothioate	126-68-1	5	20.0	30	50-150	17	66.7	30	50-150				
Parathion	56-38-2	5	20.0	30	50-150	11	66.7	30	50-150				
Phorate	298-02-2	3	20.0	30	50-150	8	66.7	30	50-150				
Sulfotep	3689-24-5	6	20.0	30	50-150	12	66.7	30	50-150				
Zinophos	297-97-2	5	20.0	30	50-150	11	66.7	30	50-150				
Malathion	121-75-5	4	20.0	30	50-150	9	66.7	30	50-150	0.70	20	30	50-150

EDISON PHILIS OPERATIONS

Method 8270E SOP # L-A-201		8270E GCMSD SOIL ANALYSIS March, 2023			
Prep method: SOP # L-P-202		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/Kg	ug/Kg	%	% Recovery
n-Butyl acrylate	141-32-2	245	1000.0	30	50-150
2-Ethylhexyl acrylate	103-11-7	570	1000.0	30	50-150
Ethylene glycol mono butyl ether	111-76-2	1375	5000.0	30	50-150

PHILIS-2 Method Analysis Performance Summary 11-09-23.xlsx
ACRYLATES IN AIR-NJ

EDISON PHILIS OPERATIONS

Method 8270E SOP # L-A-605		Acrylates in Air March, 2023			
		MDL	RL	RPD	Control Limits
Compound	CAS No.	ug/m3	ug/m3	%	% Recovery
n-Butyl acrylate	141-32-2	1	3.1	30	50-150
2-Ethylhexyl acrylate	103-11-7	1	5.0	30	50-150