December 15, 2020

Mr. Josh Cummins
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, NY 12561

Re: Closure Report Tanks 20, 21, 22, 36, and 36A
Rockland Psychiatric Center
140 Old Orangeburg Road
Orangeburg, New York 10962
PBS Registration 3-602452

Dear Mr. Cummins:

URS Corporation-New York (URS), on behalf of the New York State Office of Mental Health (NYSOMH) and Rockland Psychiatric Center (RPC), is pleased to provide this letter report summarizing the closure activities for Tanks 20, 21, 22, 36, and 36A located at the Rockland Psychiatric Center (RPC) in Orangeburg, New York 10962 (Site). The RPC tanks are registered with the New York State Department of Environmental Conservation (NYSDEC) under Petroleum Bulk Storage Registration Number 3-602452 (Attachment A).

1.0 Introduction

RPC is located at 140 Old Orangeburg Road, Orangeburg, NY 10962 (Figure 1). The site formerly used Tank 20 to store ultra-low sulfur diesel fuel for two emergency generators located in old power plant Building 50 (Figure 2). Tanks 21 and 22 formerly served as day tanks for these generators. Tank 20 was a double-walled fiberglass-reinforced plastic (FRP) underground storage tank (UST) with a capacity of 8,000-gallons. Tanks 21 and 22 were 275-gallon carbon steel tanks located within the power plant. The tanks had been in service since July 1, 1993. The site formerly used Tank 36 to store ultra-low sulfur diesel fuel for a third emergency generator in Building 50. Tank 36A formerly served as a day tank for the generator. Tank 36 was an aboveground steel tank encased in concrete (Convault tank) with a capacity of 1,000 gallons. Tank 36A was a steel day tank with a capacity of 25 gallons. Tank 36 was installed October 1, 1997 and Tank 36A was installed March 1, 2000.

This report summarizes the activities undertaken to permanently close (remove) Tanks 20, 21, 22, 36, and 36A.

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2.0 Tank Closure and Removal Activities

On November 1, 2019, the facility forwarded the signed Pre-Work Notification for Bulk Storage Closure for Tanks 20, 36, and 36A to the NYSDEC Region 3 office. On November 3, 2019, the facility forwarded the signed Pre-Work Notification for Bulk Storage Closure for Tanks 21 and 22 to the NYSDEC Region 3 office. Copies of these forms are provided in Attachment B.

NYSDEC approved the closure and requested removal of the UST in their email dated November 4, 2019. A copy of the email is provided in Attachment C.

NYSOMH and RPC retained the services of the New York State Office of General Services (NYSOGS) and their term contractor Aventura Construction Corp. (Aventura) to complete the closure of Tank 20 and the associated day use tanks (Tanks 21 and 22), as well as AST Tank 36 and its day tank (Tank 36A). Closure activities occurred between January 30, 2020 and February 7, 2020 and a photographic log of the tank closure activities is provided in Attachment D. URS observed the tank closure activities.

Remaining residual diesel fuel within Tanks 20, 21, 22, 36, and 36A was pumped to a tanker and fuel was polished prior to being transferred to other tanks on RPC campus. Prior to tank closures, Aventura removed the associated monitoring panels, sensors, and alarms.

The remaining sludge from Tanks 20, 21, 22, 36, and 36A was pumped out for offsite disposal. Approximately 1,757 gallons of contaminated fuel oil and tank bottoms were removed from the five tanks and the decommissioned piping for offsite disposal. A copy of the manifest for this shipment is presented as part of Attachment E.

2.1 Tank 20 Excavation and Removal

Excavation and removal of Tank 20 occurred on February 6, 2020. Once the UST was exposed, the tank was pulled out of the excavation area using a large excavator and placed on double layers of 6-mil poly sheeting. The tank was inspected by URS and OMH facility personnel. No cracks or holes were observed on the exterior surface of the UST. Aventura vented the tank prior to cutting the tank open and cleaning the tank interior. The tank was placed in a 20-yard rolloff container and crushed for offsite disposal.

The accessible fuel oil piping that connected Tank 20 to the day tanks (Tanks 21 and 22) and generators in the old power plant (Building 50) was excavated and cleaned prior to removal for offsite disposal. Piping that ran underneath the building was left in-place. The integrity of the piping that was removed was good, and no leaks or spills were observed in the exposed piping trench.

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During tank excavation activities, URS monitored the excavation area using a field-calibrated Photoionization Detector (PID) for volatile organic compounds (VOCs). PID readings ranged between 0 and 1 part per million (ppm). Soil staining was not observed. Groundwater was encountered during the excavation. No sheen was noted on the groundwater.

The excavation area was backfilled with clean material. Soil that had been excavated to remove the UST was screened with a PID prior to being reused as backfill. Additional fill (Type 2 Subbase) was imported to complete backfill of the excavation. The signed affidavit from Aventura indicating that closure activities were conducted in accordance with applicable state and federal regulations is provided as Attachment E, and includes the nonhazardous waste manifest for fuel and tank bottoms, documentation from Robert Hiep, Inc. for the rolloff container, scrap metal receipt, construction & demolition (C&D) debris receipt, and a virgin source letter from Tilcon New York Inc. for backfill material.

2.2 AST Closures and Removals

Tank 36 was moved from its operating location in a niche between the stack and Building 50 onto an adjacent paved area. A hydraulic hammer attached to an excavator was used to break up the concrete encasing the tank. The tank was inspected by URS and OMH facility personnel both with and without the concrete encasement. No cracks or holes were observed. The concrete was disposed as construction debris along with the excavated and crushed Tank 20 at Rockland County Solid Waste Authority. The receipt for disposal is provided as part of Attachment E. Aventura vented the tank prior to cutting the tank open and cleaning the tank interior. The steel was discarded as scrap metal.

Piping was flushed and disconnected. Aboveground piping was removed, and under-slab piping was capped.

The three day-use ASTs (Tanks 21, 22, and 36A) were emptied, vented, cut open, and cleaned. The metal from the former tanks was disposed at a scrap yard. Receipt for disposal is included in Attachment E.

3.0 Post-Excavation Soil and Groundwater Sampling

After Tank 20, the UST, was removed, URS collected post-excavation soil and shallow groundwater samples. Sampling was performed in general accordance with guidelines for UST removal provided in DER-10 Technical Guidance for Site Investigation and Remediation. Each sample was screened using a PID and readings ranged from 0.0 ppm to 0.1 ppm. Sampling locations are shown in Figure 3.

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These seven samples were collected:

- Sample PE-1 was collected from the base of excavation from an approximate depth of 12 feet below ground surface (ft bgs);
- Sample PE-2 was collected from the base of excavation from an approximate depth of 12 ft bgs;
- Sample PE-3 was collected from the east wall of the excavation from an approximate depth of 10 ft bgs;
- Sample PE-4 was collected from the west wall of the excavation from an approximate depth of 10 ft bgs;
- Sample PE-5 was collected from the south wall of the excavation from an approximate depth of 9 ft bgs;
- Sample PE-6 was collected from the north wall of the excavation from an approximate depth of 9 ft bgs;
- Sample PE-7 was collected from along the base of the pipe trench from an approximate depth of 2 ft bgs; and
- Sample PE-6A was a duplicate sample from the north wall of the excavation from an approximate depth of 9 ft bgs.

Shallow groundwater was encountered during the excavation of the UST. URS collected groundwater sample WS-1 and duplicate sample WS-1A. The samples were collected from a depth of approximately 14 ft bgs.

The soil and groundwater samples were contained in laboratory-supplied glassware, labeled, placed on ice and shipped under chain-of-custody protocol to Chemtech Analytical Laboratories of Mountainside, New Jersey, a New York State Department of Health-certified laboratory. The soil and groundwater samples were submitted for analysis of VOCs listed in Table 2 of NYSDEC Policy CP-51 Soil Cleanup Guidance (CP-51), by United States Environmental Protection Agency (USEPA) Method 8260C and semi-volatile organic compounds (SVOCs) listed in Table 3 of CP-51, by USEPA Method 8270D. The samples were submitted to the laboratory for analysis on a standard turn-around time.

4.0 Summary of Analytical Results

The soil and groundwater analytical results are summarized in Table 1 and Table 2, respectively. The groundwater samples were compared to the NYSDEC Groundwater Quality Standards and Guidance Values established in the Technical and Operational Guidance Series (TOGS) 1.1.1, 2004. Soil samples were compared to the NYSDEC CP-51 Soil Cleanup Criteria established in the NYSDEC Policy dated October 21, 2010. The laboratory analytical report is provided in Attachment F.

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4.1 Post-Excavation Soil Samples

As shown in Table 1, VOCs were not detected in the seven post-excavation soil samples from the tank excavation or from under the excavated pipelines. Figure 3 shows the post-excavation sampling locations.

SVOCs were not detected in samples PE-1, PE-3, PE-5 and PE-7. SVOCs were detected at concentrations less than the CP-51 cleanup levels in two of the soil samples (PE-2 and PE-4). In sample PE-6, concentrations of benzo(a)anthracene (1.20 milligrams per kilogram [mg/kg]), chrysene (1.10 mg/kg), benzo(b)fluoranthene (1.20 mg/kg), benzo(a)pyrene (1.10 mg/kg) and indeno(1,2,3-cd)pyrene (0.74 mg/kg) were detected at concentrations slightly greater than the CP-51 criteria. In the duplicate sample, PE-6A, only benzo(a)antracene (1.2 mg/kg) and indeno(1,2,3-cd)pyrene (0.69 mg/gk) were detected at concentrations greater than CP-51 criteria of 1.0 mg/kg and 0.5 mg/kg, respectively.

4.2 Shallow Groundwater Samples

As shown in Table 2, VOCs were not detected in groundwater sample WS-1 and duplicate sample WS-1A. SVOCs were also not detected in groundwater sample WS-1 and duplicate sample WS-1A.

4.0 Conclusions

Based on completed scope of work and observed site conditions, URS concludes:

- Tanks 20, 21, 22, 36, and 36A were removed in accordance with applicable state and federal regulations;
- There were no cracks or damage observed on the UST (Tank 20) exterior;
- No sheen was observed on the groundwater in the base of the UST excavation;
- No petroleum-stained soil was observed, and no petroleum odor was noted from the UST excavation area or from the stockpile of excavated soil adjacent to the excavation;
- The integrity of the piping that was removed was good and no indication of leaks or spills, such as oil staining or petroleum odor, were observed in the exposed piping trenches;
- The integrity of the ASTs (Tanks 21, 22, 36, and 36A) was good, and no indication of leaks or spills was observed near or under the removed ASTs;
- The tank system monitoring panels, strobe, sensors, and alarms were removed and disposed of properly off-site;
- CP-51 List VOCs were not detected in any of the soil or groundwater samples collected from the UST excavation and piping trench;
- CP-51 List SVOCs were not detected in the groundwater sample;

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- CP-51 List SVOCs were either not detected or were detected below CP-51 criteria at six of the seven soil sampling locations.; and
- Only four SVOCs were detected at concentrations slightly above the CP-51 Criteria at one sampling location (PE-6).
- The associated duplicate sample (PE-6A) had just two SVOCs detected above criteria.

URS respectfully requests that NYSDEC update the Petroleum Bulk Storage Registration, whose application is submitted to your department with this report, to reflect the permanent closure of Tanks 20, 21, 22, 36, and 36A.

Please feel free to contact the undersigned if you have any questions or need additional information at 862-485-8220 or email at Balachandra.Sudarshan@aecom.com.

Very truly yours,
URS CORPORATION – New York

Chandra Sudarshan, IH
Down State Project Manager

Cc: Project File - URS
Beynan Ransom, NYS DEC Region 3
Marshall Vitale, OMH Bureau of Capital Operations
Jim Ng, OMH Bureau of Capital Operations
Sean Brennan, Plant Superintendent, Rockland Psychiatric Center
John Rotella, DFAS, South Beach Psychiatric Center
Dana Hamm, OMH Bureau of Capital Operations
Sgt. Ricky Smith, Right-To-Know Officer, Rockland PC

ATTACHMENTS:

Figure 1 Site Location Map
Figure 2 Tank Location Map
Figure 3 Tank 20 Area Groundwater and Soil Sampling Locations

Table 1 Summary of Soil Analytical Results
Table 2 Summary of Groundwater Analytical Results

Attachment A Petroleum Bulk Storage Registration Number 3-602452

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Attachment B	NYSDEC 30-Day Closure Notification Form
Attachment C	NYSDEC Acknowledgement Email
Attachment D	Photographic Log
Attachment E	Contractor Tank Closure Affidavit and Supporting Documentation
Attachment F	Soil and Groundwater Sampling Laboratory Data Package

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FIGURES

Old Powerhouse
Bldg. 50 Area

Bldg. 124
Bldg. 44
Bldg. 56
Bldg. 50
Bldg. 49
Bldg. 45
Bldg. 47
Bldg. 17
Bldg. 19
Bldg. 183
Bldg. 129
Bldg. 57
Bldg. 60
Bldg. 59
Bldg. 58

0 1/32 1/64
APPROXIMATE
GRAPHIC SCALE (IN FEET)

NOTES:

1. Locations are approximate.

FILE NAME: .../ROCK-2020TankClose.dwg

Title: SITE LOCATION MAP

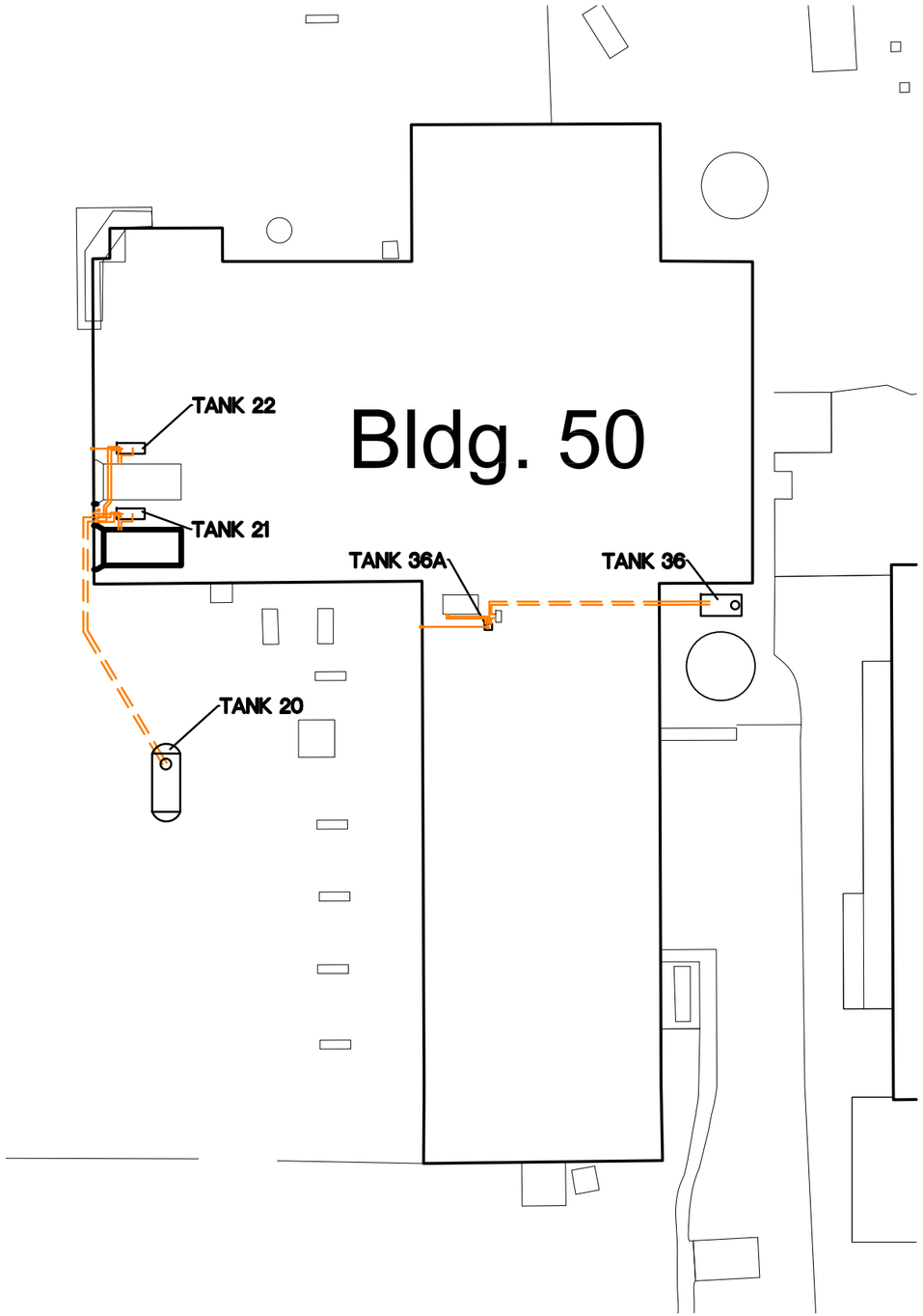
Location: ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NEW YORK 10962

Client: NEW YORK STATE
OFFICE OF MENTAL HEALTH

URS Corporation
40 British American Boulevard
Latham, New York 12110

Drafter: KP	Date: December 2020
Drg. Size: 11 x 17	Job No.: 60495438.1

FIGURE 1



LEGEND

Underground Pipe

Above Ground Pipe

0 40 80

APPROXIMATE
GRAPHIC SCALE (IN FEET)

NOTES:

1. Locations are approximate.

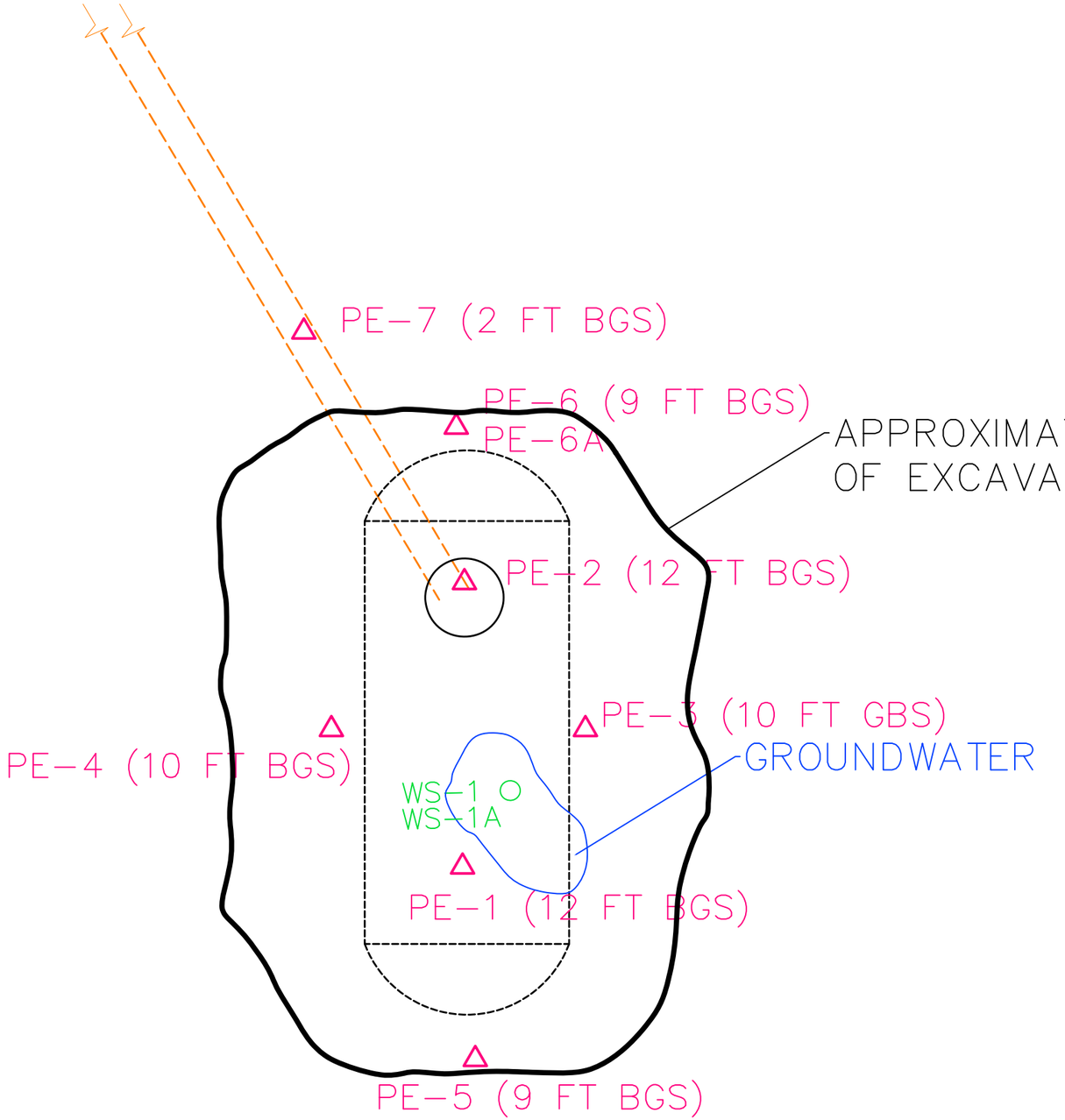
Title:	TANK LOCATION MAP
Location:	ROCKLAND PSYCHIATRIC CENTER 140 OLD ORANGEBURG ROAD ORANGEBURG, NEW YORK 10962
Client:	NEW YORK STATE OFFICE OF MENTAL HEALTH

URS Corporation
40 British American Boulevard
Latham, New York 12110

Drafter: KP	Date: December 2020
Drg. Size: 11 x 17	Job No.: 60495438.1

FIGURE 2

FILE NAME: .../ROK-2020TankClose.dwg



LEGEND

PE-1 (12 FT BGS)	Post-Excavation Soil Sample Location Sample ID and Sample Depth
WS-1	Groundwater Sample Location Sample ID
	Underground Pipe

FT BGS - Feet Below Ground Surface

0 5 10

APPROXIMATE
GRAPHIC SCALE (IN FEET)

NOTES:

1. Locations are approximate.

Title: TANK 20 AREA GROUNDWATER AND SOIL SAMPLE LOCATIONS

Location: ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NEW YORK 10962

Client: NEW YORK STATE OFFICE OF MENTAL HEALTH

URS Corporation
40 British American Boulevard
Latham, New York 12110

Drafter: KP | Date: December 2020

Drg. Size: 11 x 17 | Job No.: 60495438.1

FIGURE 3

FILE NAME: .../ROK-2020TankClose.dwg

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

ROCKLAND PSYCHIATRIC CENTER
ORANGEBURG, NEW YORK

Sample ID		CP-51 Cleanup Level (mg/kg)*	PE-1-(BASE)	PE-2-(BASE)	PE-3-(SIDE-WALL)-EAST	PE-4-(SIDE-WALL)-WEST	PE-5-(SIDE-WALL)-SOUTH	PE-6-(SIDE-WALL)-NORTH	PE-7-(BELOW-PIPE)-NW	PE-6A-(DUPLICATE)
Sampling Date			**2/6/2020**	**2/6/2020**	**2/6/2020**	**2/6/2020**	**2/6/2020**	**2/6/2020**	**2/6/2020**	**2/6/2020**
COMPOUND	CAS #									
Volatile Organic Compounds (mg/kg)										
Methyl tert-butyl Ether	1634-04-4	0.93	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
Benzene	71-43-2	0.06	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
Toluene	108-88-3	0.7	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
Ethyl Benzene	100-41-4	1.0	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
m/p-Xylenes	179601-23-1	0.26	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
o-Xylene	95-47-6	0.26	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
Isopropylbenzene	98-82-8	2.3	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
n-propylbenzene	103-65-1	3.9	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
1,3,5-Trimethylbenzene	108-67-8	8.4	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
tert-Butylbenzene	98-06-6	5.9	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
1,2,4-Trimethylbenzene	95-63-6	3.6	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
sec-Butylbenzene	135-98-8	11.0	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
p-Isopropyltoluene	99-87-6	10.0	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
n-Butylbenzene	104-51-8	12.0	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U
Naphthalene	91-20-3	12.0	0.0055 U	0.0056 U	0.0056 U	0.0054 U	0.0055 U	0.0055 U	0.0054 U	0.0055 U

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS

ROCKLAND PSYCHIATRIC CENTER
ORANGEBURG, NEW YORK

Sample ID		CP-51 Cleanup Level (mg/kg)*	PE-1-(BASE)		PE-2-(BASE)		PE-3-(SIDE-WALL)-EAST		PE-4-(SIDE-WALL)-WEST		PE-5-(SIDE-WALL)-SOUTH		PE-6-(SIDE-WALL)-NORTH		PE-7-(BELOW-PIPE)-NW		PE-6A-(DUPLICATE)	
Sampling Date			2/6/2020		2/6/2020		2/6/2020		2/6/2020		2/6/2020		2/6/2020		2/6/2020		2/6/2020	
Semivolatile Organic Compounds (mg/kg)																		
Acenaphthylene	208-96-8	100	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.13**	**J**	0.36	U	**0.11**	**J**
Acenaphthene	83-32-9	20	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.076**	**J**	0.36	U	**0.11**	**J**
Fluorene	86-73-7	30	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.14**	**J**	0.36	U	**0.23**	**J**
Phenanthrene	85-01-8	100	0.37	U	**0.13**	**J**	0.37	U	**0.092**	**J**	0.36	U	**1.20**		0.36	U	**1.40**	
Anthracene	120-12-7	100	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.29**	**J**	0.36	U	**0.38**	
Fluoranthene	206-44-0	100	0.37	U	**0.13**	**J**	0.37	U	0.36	U	0.36	U	**2.00**		0.36	U	**1.90**	
Pyrene	129-00-0	100	0.37	U	**0.093**	**J**	0.37	U	0.36	U	0.36	U	**1.9**		0.36	U	**1.80**	
Benzo(a)anthracene	56-55-3	1.0	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**1.20**		0.36	U	**1.20**	
Chrysene	218-01-9	1.0	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**1.10**		0.36	U	**0.95**	
Benzo(b)fluoranthene	205-99-2	1.0	0.37	U	**0.076**	**J**	0.37	U	0.36	U	0.36	U	**1.20**		0.36	U	**0.98**	
Benzo(k)fluoranthene	207-08-9	0.8	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.56**		0.36	U	**0.33**	**J**
Benzo(a)pyrene	50-32-8	1.0	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**1.10**		0.36	U	**1.00**	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.74**		0.36	U	**0.69**	
Dibenzo(a,h)anthracene	53-70-3	0.33	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.23**	**J**	0.36	U	**0.16**	**J**
Benzo(g,h,i)perylene	191-24-2	100	0.37	U	0.37	U	0.37	U	0.36	U	0.36	U	**0.80**		0.36	U	**0.59**	

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit, but greater than MDL. The concentration given is an approximate value.

Notes:

Soil samples analyzed by ChemTech in Mountainside, New Jersey.

*: New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Criteria October 21, 2010.

mg/kg - milligrams per kilogram

Bold values indicate that the compound was detected in the sample.

Shaded values indicate the detected concentration exceeds the comparison standard.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

ROCKLAND PSYCHIATRIC CENTER
ORANGEBURG, NEW YORK

Sample ID		NYS GW Standard* (ug/L)	WS-1-(BASE-WATER)		WS-1A-(DUPLICATE)	
Sampling Date			2/6/2020		2/6/2020	
COMPOUND	**CAS #**					
Volatile Organic Compounds (ug/L)						
Methyl tert-butyl Ether	1634-04-4	[10]	1.00	U	1.00	U
Benzene	71-43-2	1.0	1.00	U	1.00	U
Toluene	108-88-3	5.0	1.00	U	1.00	U
Ethyl Benzene	100-41-4	5.0	1.00	U	1.00	U
m/p-Xylenes	179601-23-1	5.0	2.00	U	2.00	U
o-Xylene	95-47-6	5.0	1.00	U	1.00	U
Isopropylbenzene	98-82-8	5.0	1.00	U	1.00	U
n-propylbenzene	103-65-1	5.0	1.00	U	1.00	U
1,3,5-Trimethylbenzene	108-67-8	5.0	1.00	U	1.00	U
tert-Butylbenzene	98-06-6	5.0	1.00	U	1.00	U
1,2,4-Trimethylbenzene	95-63-6	5.0	1.00	U	1.00	U
sec-Butylbenzene	135-98-8	5.0	1.00	U	1.00	U
p-Isopropyltoluene	99-87-6	5.0	1.00	U	1.00	U
n-Butylbenzene	104-51-8	5.0	1.00	U	1.00	U
Naphthalene	91-20-3	[10]	1.00	U	1.00	U
Semivolatile Organic Compounds (ug/L)						
Acenaphthylene	208-96-8	NS	10.0	U	10.0	U
Acenaphthene	83-32-9	[20]	10.0	U	10.0	U
Fluorene	86-73-7	[50]	10.0	U	10.0	U
Phenanthrene	85-01-8	[50]	10.0	U	10.0	U
Anthracene	120-12-7	[50]	10.0	U	10.0	U
Fluoranthene	206-44-0	[50]	10.0	U	10.0	U
Pyrene	129-00-0	[50]	10.0	U	10.0	U
Benzo(a)anthracene	56-55-3	[0.002]	10.0	U	10.0	U
Chrysene	218-01-9	[0.002]	10.0	U	10.0	U
Benzo(b)fluoranthene	205-99-2	[0.002]	10.0	U	10.0	U
Benzo(k)fluoranthene	207-08-9	[0.002]	10.0	U	10.0	U
Benzo(a)pyrene	50-32-8	ND	10.0	U	10.0	U
Indeno(1,2,3-cd)pyrene	193-39-5	[0.002]	10.0	U	10.0	U
Dibenzo(a,h)anthracene	53-70-3	NS	10.0	U	10.0	U
Benzo(g,h,i)perylene	191-24-2	NS	10.0	U	10.0	U

Qualifiers

U - The compound was not detected at the indicated concentration.

Notes

Groundwater samples analyzed by ChemTech in Mountainside, New Jersey.

ug/L: micrograms per liter

*: New York State Department of Environmental Conservation (NYSDEC) Groundwater (GW) Standard Technical and Operational Guidance Series (TOGS) 1.1.1, 2004.

[ ]: Indicates a Guidance Value.

NS: No Standard

ND: Nondetect

ATTACHMENT A

PETROLEUM BULK STORAGE

REGISTRATION NUMBER 3-602452

PBS Number
3-602452

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE

625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 3 NYSDEC - PBS Unit
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3121

TANK NUMBER	TANK SUBPART	TANK CATEGORY	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)	
17	2	2	Underground including vaulted with no access for inspection	07/01/1991	Fiberglass Reinforced Plastic (FRP)	diesel	6,000	
17A	4	2	Aboveground on saddles, legs, stilts, rack or cradle	08/01/2001	Steel/Carbon Steel/Iron	diesel	75	*
18	2	2	Underground including vaulted with no access for inspection	07/01/1991	Fiberglass Reinforced Plastic (FRP)	diesel	8,000	
18A	4	2	Aboveground on saddles, legs, stilts, rack or cradle	08/01/2001	Steel/Carbon Steel/Iron	diesel	75	*
20	2	2	Underground including vaulted with no access for inspection	07/01/1993	Fiberglass Reinforced Plastic (FRP)	diesel	8,000	

FACILITY NAME AND ADDRESS:
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

Facility Operator: MATTHEW DUFFY

Emergency Contact Name: MATTHEW DUFFY
Emergency Contact Phone Number: (846) 680-8762

ISSUED BY: Commissioner
Basil Seggos
PBS NUMBER: **3-602452**
DATE ISSUED: 01/04/2017
EXPIRATION DATE: 01/01/2022
FEE PAID: $500.00

FACILITY (PROPERTY) OWNER:
NEW YORK STATE OFFICE OF MENTAL
75 NEW SCOTLAND AVE
ALBANY, NY 12208

Tank Owner Name:
Multiple Tank Owners

Facility Phone Number
(845) 359-1000

MAILING CORRESPONDENCE:
MATTHEW DUFFY
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

This registration certificate must be kept current and conspicuously posted at this facility at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.

Spills must be reported to the DEC within two hours (1-800-457-7362).

Matthew Duffy 8/29/20
Signature of Facility Owner/Authorized Representative Date

MATTHEW DUFFY
Printed Name and Title of Facility Owner/Authorized Representative

Print Date: 8/28/2020

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

NEW YORK STATE

PBS Number
3-602452

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE
625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 3 NYSDEC - PBS Unit
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3121

TANK NUMBER	TANK SUBPART	TANK CATEGORY	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)	
21	4	2	Aboveground - in contact with impervious barrier	07/01/1993	Steel/Carbon Steel/Iron	diesel	275	*
22	4	2	Aboveground - in contact with impervious barrier	07/01/1993	Steel/Carbon Steel/Iron	diesel	275	*
34	4	2	Aboveground on saddles, legs, stilts, rack or cradle	10/01/1997	Steel/Carbon Steel/Iron	waste oil/used oil	280	*
35	4	2	Aboveground on saddles, legs, stilts, rack or cradle	10/01/1997	Steel Tank Encased in Concrete	diesel	1,000	*
36	4	2	Aboveground on saddles, legs, stilts, rack or cradle	10/01/1997	Steel Tank Encased in Concrete	diesel	1,000	*
36A	4	2	Aboveground - in contact with impervious barrier	03/01/2000	Steel/Carbon Steel/Iron	diesel	25	*

FACILITY NAME AND ADDRESS:
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

Facility Operator: MATTHEW DUFFY

Emergency Contact Name: MATTHEW DUFFY
Emergency Contact Phone Number: (846) 680-8762

ISSUED BY: Commissioner
Basil Seggos
PBS NUMBER: **3-602452**
DATE ISSUED: 01/04/2017
EXPIRATION DATE: 01/01/2022
FEE PAID: $500.00

FACILITY (PROPERTY) OWNER:
NEW YORK STATE OFFICE OF MENTAL
75 NEW SCOTLAND AVE
ALBANY, NY 12208

Tank Owner Name:
Multiple Tank Owners

Facility Phone Number
(845) 359-1000

MAILING CORRESPONDENCE:
MATTHEW DUFFY
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

This registration certificate must be kept current and conspicuously posted at this facility at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.

Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative — Date: 8/29/20

MATTHEW DUFFY
Printed Name and Title of Facility Owner/Authorized Representative

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

PBS Number
3-602452

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE

625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 3 NYSDEC - PBS Unit
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3121

TANK NUMBER	TANK SUBPART	TANK CATEGORY	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)	
37	4	2	Aboveground on saddles, legs, stilts, rack or cradle	10/01/1997	Steel Tank Encased in Concrete	gasoline/ethanol	8,000	*
40	4	2	Aboveground on saddles, legs, stilts, rack or cradle	07/01/2003	Steel/Carbon Steel/Iron	diesel	336	*
41	4	2	Aboveground - in contact with impervious barrier	04/01/2009	Steel/Carbon Steel/Iron	diesel	1,800	*
42	3	3	Underground including vaulted with no access for inspection	10/12/2016	Fiberglass Reinforced Plastic (FRP)	#2 fuel oil (on-site consumption)	20,000	
43	3	3	Underground including vaulted with no access for inspection	10/12/2016	Fiberglass Reinforced Plastic (FRP)	#2 fuel oil (on-site consumption)	20,000	

FACILITY NAME AND ADDRESS:
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140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

Facility Operator: MATTHEW DUFFY

Emergency Contact Name: MATTHEW DUFFY
Emergency Contact Phone Number: (846) 680-8762

ISSUED BY: Commissioner
Basil Seggos
PBS NUMBER: **3-602452**
DATE ISSUED: 01/04/2017
EXPIRATION DATE: 01/01/2022
FEE PAID: $500.00

FACILITY (PROPERTY) OWNER:
NEW YORK STATE OFFICE OF MENTAL
75 NEW SCOTLAND AVE
ALBANY, NY 12208

Tank Owner Name:
Multiple Tank Owners

Facility Phone Number
(845) 359-1000

MAILING CORRESPONDENCE:
MATTHEW DUFFY
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

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Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative — Date: 8/29/20

MATTHEW DUFFY
Printed Name and Title of Facility Owner/Authorized Representative

Print Date: 8/28/2020

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

PBS Number
3-602452

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE

625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 3 NYSDEC - PBS Unit
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3121

TANK NUMBER	TANK SUBPART	TANK CATEGORY	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)	
44	4	3	Aboveground on saddles, legs, stilts, rack or cradle	06/29/2017	Steel/Carbon Steel/Iron	#2 fuel oil (on-site consumption)	1,063	*
45	4	3	Aboveground on saddles, legs, stilts, rack or cradle	06/29/2017	Steel/Carbon Steel/Iron	#2 fuel oil (on-site consumption)	221	*
46	4	3	Aboveground on saddles, legs, stilts, rack or cradle	07/06/2019	Steel/Carbon Steel/Iron	gasoline/ethanol	4,000	*
47	4	3	Aboveground on saddles, legs, stilts, rack or cradle	07/06/2019	Steel/Carbon Steel/Iron	diesel	3,000	*
GEN1	4	2	Aboveground - in contact with impervious barrier	03/07/1998	Steel/Carbon Steel/Iron	diesel	300	*
GEN1DAY	4	2	Aboveground on saddles, legs, stilts, rack or cradle	03/07/1998	Steel/Carbon Steel/Iron	diesel	50	*

FACILITY NAME AND ADDRESS:
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

Facility Operator: MATTHEW DUFFY

Emergency Contact Name: MATTHEW DUFFY
Emergency Contact Phone Number: (846) 680-8762

ISSUED BY: Commissioner
Basil Seggos
PBS NUMBER: **3-602452**
DATE ISSUED: 01/04/2017
EXPIRATION DATE: 01/01/2022
FEE PAID: $500.00

FACILITY (PROPERTY) OWNER:
NEW YORK STATE OFFICE OF MENTAL
75 NEW SCOTLAND AVE
ALBANY, NY 12208

Tank Owner Name:
Multiple Tank Owners

Facility Phone Number
(845) 359-1000

MAILING CORRESPONDENCE:
MATTHEW DUFFY
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

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Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative — Date: 8/29/20

MATTHEW DUFFY
Printed Name and Title of Facility Owner/Authorized Representative

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

PBS Number
3-602452

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE

625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 3 NYSDEC - PBS Unit
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3121

TANK NUMBER	TANK SUBPART	TANK CATEGORY	TANK LOCATION	DATE INSTALLED	TANK TYPE	PRODUCT STORED	CAPACITY (GALLONS)	
GEN2	4	2	Aboveground - in contact with soil	07/26/1992	Steel/Carbon Steel/Iron	diesel	150	*
GEN3	4	2	Aboveground - in contact with soil	03/07/1998	Steel/Carbon Steel/Iron	diesel	200	*
GEN4	4	3	Aboveground on saddles, legs, stilts, rack or cradle	10/24/2017	Steel/Carbon Steel/Iron	diesel	9,900	*

*** Tank requires monthly visual inspections and may need documented internal inspections as described in 6NYCRR Section 613-4.3.**

PBS regulations are available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/part613text.pdf .

FACILITY NAME AND ADDRESS:
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

Facility Operator: MATTHEW DUFFY

Emergency Contact Name: MATTHEW DUFFY
Emergency Contact Phone Number: (846) 680-8762

ISSUED BY: Commissioner
Basil Seggos
PBS NUMBER: **3-602452**
DATE ISSUED: 01/04/2017
EXPIRATION DATE: 01/01/2022
FEE PAID: $500.00

FACILITY (PROPERTY) OWNER:
NEW YORK STATE OFFICE OF MENTAL
75 NEW SCOTLAND AVE
ALBANY, NY 12208

Tank Owner Name:
Multiple Tank Owners

Facility Phone Number
(845) 359-1000

MAILING CORRESPONDENCE:
MATTHEW DUFFY
ROCKLAND PSYCHIATRIC CENTER
140 OLD ORANGEBURG ROAD
ORANGEBURG, NY 10962

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Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative — Date: 8/29/20

MATTHEW DUFFY
Printed Name and Title of Facility Owner/Authorized Representative

Print Date: 8/28/2020

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

ATTACHMENT B

PRE-WORK CLOSURE NOTIFICATIONS

New York State Department of Environmental Conservation
Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation or Closure

This form provides notice of an upcoming tank installation and/or closure per 6 NYCRR Sections 613-1.9(h) and (f), 613-2.6(b) (1), 613-3.5 (b) (1) and 613-4.5 (b) (1) of the Petroleum Bulk Storage (PBS) Regulations, or 6 NYCRR Sections 596.2(f) and (h) of the Chemical Bulk Storage (CBS) Regulations. Submit the completed form to the Department's Regional Office at least 30 days prior to action for PBS tank installation * and permanent closure** ; at least 3 days prior for CBS tank installation *** . For CBS permanent tank closure, a minimum of 3 day prior notice is recommended. **If the schedule for work changes you must notify the Department's Regional Office before work begins. Once the work is complete, the facility (property) owner is responsible for submitting a PBS or CBS application to the Department with the complete tank information including the date the action was completed.** The Owner is also responsible to ensure that all work is completed in compliance with the applicable PBS or CBS regulations (i.e., Parts 613 or 598/599). Any questions, call the Department's Regional Office. Information on the Chemical and Petroleum Bulk Storage Programs be found at: http://www.dec.ny.gov/chemical/287.html

*not required for temporary tank system ** unless in response to corrective action *** unless immediate action is required

Check Applicable Program: X PBS ____ CBS **Facility PBS or CBS Registration No.** 3-602452

Site Name: ROCKLAND PSYCHIATRIC CENTER	Contractor: AVENTURA CONSTRUCTION CORP.
Site Address: 140 OLD ORANGEBURG ROAD	Address: 1101 WAVERLY AVENUE
Site Address (cont): ORANGEBURG, NY 10962	Address(cont): HOLTSVILLE, NY 11742
Site Contact: MATTHEW DUFFY	Contact: SAL FASTUCA
Phone Number: 845-680-8762 Fax Number: 845-437-5176	Phone Number: 631-654-0660 Fax Number:
Email Address: MATTHEW.DUFFY@OMH.NY.GOV	Email Address: DFASTUCA@AVENTURACORP.COM

Tank Number	Type of Action (Close & Remove, Close in Place, Install)	Proposed Date (mm/dd/yy)	Tank Location (Aboveground or Underground)	Capacity (Gallons)	Spills/Leaks? (Yes/No w/Spill # if Yes)	Reason for Action
20	CLOSE IN PLACE	11/06/2019	UNDERGROUND	8,000	NO	DECOMMISSIONING
36	CLOSE & REMOVE	11/06/2019	ABOVEGROUND	1,000	NO	DECOMMISSIONING
36A	CLOSE & REMOVE	11/06/2019	ABOVEGROUND	25	NO	DECOMMISSIONING

I hereby certify under penalty of law that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative (print): MATTHEW DUFFY Title: MAINT. SUPR. 4

Signature _____ Date 11/1/19

revised 02/01/2017

New York State Department of Environmental Conservation
Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation or Closure

This form provides notice of an upcoming tank installation and/or closure per 6 NYCRR Sections 613-1.9(h) and (f), 613-2.6(b) (1), 613-3.5 (b) (1) and 613-4.5 (b) (1) of the Petroleum Bulk Storage (PBS) Regulations, or 6 NYCRR Sections 596.2(f) and (h) of the Chemical Bulk Storage (CBS) Regulations. Submit the completed form to the Department's Regional Office at least 30 days prior to action for PBS tank installation * and permanent closure** ; at least 3 days prior for CBS tank installation *** . For CBS permanent tank closure, a minimum of 3 day prior notice is recommended. **If the schedule for work changes you must notify the Department's Regional Office before work begins. Once the work is complete, the facility (property) owner is responsible for submitting a PBS or CBS application to the Department with the complete tank information including the date the action was completed.** The Owner is also responsible to ensure that all work is completed in compliance with the applicable PBS or CBS regulations (i.e., Parts 613 or 598/599). Any questions, call the Department's Regional Office. Information on the Chemical and Petroleum Bulk Storage Programs be found at: http://www.dec.ny.gov/chemical/287.html

*not required for temporary tank system ** unless in response to corrective action *** unless immediate action is required

Check Applicable Program: X PBS _____ CBS **Facility PBS or CBS Registration No.** 3-602452

Site Name: Rockland Psychiatric Center	Contractor: AVENTURA CONSTRUCTION CORP
Site Address: 140 old Orangeburg Road	Address: 1101 WAVERLY AVENUE
Site Address (cont): Orangeburg, NY-10962	Address(cont): HOLTSVILLE, NY-11742
Site Contact: MATTHEW DUFFY / ANDREW DOLAN	Contact: SAL FASTUCA
Phone Number: 845-680-8762 Fax Number: 845-437-5176	Phone Number: 631-654-0660 Fax Number:
Email Address: MATTHEW.DUFFY@omh.ny.gov / Andrew.Dolan@omh.ny.gov	Email Address: DFASTUCA@aventuracorp.com

Tank Number	Type of Action (Close & Remove, Close in Place, Install)	Proposed Date (mm/dd/yy)	Tank Location (Aboveground or Underground)	Capacity (Gallons)	Spills/Leaks? (Yes/No w/Spill # if Yes)	Reason for Action
21	close & Remove	3/3/2020	Aboveground	275	NO	Building Decommissioned
22	close & Remove	3/3/2020	Aboveground	275	NO	—11— —11— —11—

I hereby certify under penalty of law that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative (print): MATTHEW DUFFY Title: Maint Supv. 4

Signature _____ Date 2/3/20

revised 02/01/2017

ATTACHMENT C

NYSDEC CLOSURE APPROVAL

Rogers, Anne

From: Sudarshan, Balachandra
Sent: Monday, November 4, 2019 12:43 PM
To: Cummins, Joshua P (DEC); Joray, Jaclyn M (OMH)
Cc: Rogers, Anne; Brennan, Sean P (OMH); Duffy, Matthew M (OMH); Bendell, Daniel (DEC); Ransom, Beynan T (DEC); Kelly, Francis (DEC)
Subject: Re: 3-602452 RE: Closure notification for tanks 20, 36, & 36A

Ok

Balachandra Sudarshan
AECOM/URS
Senior Project Manager/IH
Consultant, NYSOMH
Downstate PM
1255 Broad
Mobile: 862-485-8220
Balachandra.sudarshan@aecom.com

From: Cummins, Joshua P (DEC) <joshua.cummins@dec.ny.gov>
Sent: Monday, November 4, 2019 12:41:28 PM
To: Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>; Joray, Jaclyn M (OMH) <Jaclyn.Joray@omh.ny.gov>
Cc: Rogers, Anne <Anne.Rogers@aecom.com>; Brennan, Sean P (OMH) <Sean.Brennan@omh.ny.gov>; Duffy, Matthew M (OMH) <Matthew.Duffy@omh.ny.gov>; Bendell, Daniel (DEC) <daniel.bendell@dec.ny.gov>; Ransom, Beynan T (DEC) <Beynan.Ransom@dec.ny.gov>; Kelly, Francis (DEC) <francis.kelly@dec.ny.gov>
Subject: RE: 3-602452 RE: Closure notification for tanks 20, 36, & 36A

Is there a specific reason why the tank has to be closed in place? At this point in time I don't see anything supporting the decision to close in place. Please remove the tank from the ground.

Thank you,

Josh Cummins
Assistant Engineer

New York State Department of Environmental Conservation
Region 3 - Division of Environmental Remediation
Spill Prevention, Response and Remediation
21 S. Putt Corners Rd, New Paltz, NY 12561
P: (845) 256-3166 | F: (845) 255-3414 | joshua.cummins@dec.ny.gov
www.dec.ny.gov | | | |

NYSDEC 24 HR SPILL HOTLINE: 1-800-457-7362

From: Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>
Sent: Monday, November 04, 2019 12:16 PM
To: Cummins, Joshua P (DEC) <joshua.cummins@dec.ny.gov>; Joray, Jaclyn M (OMH) <Jaclyn.Joray@omh.ny.gov>
Cc: Rogers, Anne <Anne.Rogers@aecom.com>; Brennan, Sean P (OMH) <Sean.Brennan@omh.ny.gov>; Duffy, Matthew M (OMH) <Matthew.Duffy@omh.ny.gov>; Bendell, Daniel (DEC) <daniel.bendell@dec.ny.gov>; Ransom, Beynan T (DEC) <Beynan.Ransom@dec.ny.gov>; Kelly, Francis (DEC) <francis.kelly@dec.ny.gov>
Subject: Re: 3-602452 RE: Closure notification for tanks 20, 36, & 36A

Josh: want to clarify: can we leave the ust in place during closure and complete site assessment? If not you want us to excavate?

Get Outlook for iOS

From: Cummins, Joshua P (DEC) <joshua.cummins@dec.ny.gov>
Sent: Monday, November 4, 2019 12:13:45 PM
To: Joray, Jaclyn M (OMH) <Jaclyn.Joray@omh.ny.gov>
Cc: Rogers, Anne <Anne.Rogers@aecom.com>; Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>; Brennan, Sean P (OMH) <Sean.Brennan@omh.ny.gov>; Duffy, Matthew M (OMH) <Matthew.Duffy@omh.ny.gov>; Bendell, Daniel (DEC) <daniel.bendell@dec.ny.gov>; Ransom, Beynan T (DEC) <Beynan.Ransom@dec.ny.gov>; Kelly, Francis (DEC) <francis.kelly@dec.ny.gov>
Subject: 3-602452 RE: Closure notification for tanks 20, 36, & 36A

Jaclyn/Matt

Include PBS number in subject line of all emails.

Why is the plan to close tank 20 in place? Remove the tank.

Josh Cummins
Assistant Engineer

New York State Department of Environmental Conservation
Region 3 - Division of Environmental Remediation
Spill Prevention, Response and Remediation
21 S. Putt Corners Rd, New Paltz, NY 12561
P: (845) 256-3166 | F: (845) 255-3414 | joshua.cummins@dec.ny.gov
www.dec.ny.gov | | |

NYSDEC 24 HR SPILL HOTLINE: 1-800-457-7362

From: Joray, Jaclyn M (OMH) <Jaclyn.Joray@omh.ny.gov>
Sent: Monday, November 04, 2019 10:07 AM
To: Aversa, Jack A (DEC) <jack.aversa@dec.ny.gov>; Cummins, Joshua P (DEC) <joshua.cummins@dec.ny.gov>
Cc: Rogers, Anne <Anne.Rogers@aecom.com>; 'Sudarshan, Balachandra' <balachandra.sudarshan@aecom.com>; Brennan, Sean P (OMH) <Sean.Brennan@omh.ny.gov>; Duffy, Matthew M (OMH) <Matthew.Duffy@omh.ny.gov>
Subject: RE: Closure notification for tanks 20, 36, & 36A

From: Joray, Jaclyn M (OMH)
Sent: Friday, November 01, 2019 10:00 AM
To: Aversa, Jack A (DEC) <jack.aversa@dec.ny.gov>; Cummins, Joshua P (DEC) <joshua.cummins@dec.ny.gov>
Cc: Rogers, Anne <Anne.Rogers@aecom.com>; 'Sudarshan, Balachandra' <balachandra.sudarshan@aecom.com>; Brennan, Sean P (OMH) <Sean.Brennan@omh.ny.gov>; Duffy, Matthew M (OMH) <Matthew.Duffy@omh.ny.gov>
Subject: RE: Closure notification for tanks 20, 36, & 36A

From: Duffy, Matthew M (OMH)
Sent: Friday, November 01, 2019 9:45 AM
To: Joray, Jaclyn M (OMH) <Jaclyn.Joray@omh.ny.gov>
Subject: FW: Closure notification for tanks 20, 36, & 36A

On behalf of Matt Duffy, Maintenance Supervisor, please see the attached …

Jaclyn Joray
Administrative Assistant II
Office of the Director of Facility Administration
Rockland Psychiatric Center - Office of Mental Health
140 Old Orangeburg Road Orangeburg, New York 10962
845.680.8015(P) | 845.680.5580 (F)
Jaclyn.Joray@omh.ny.gov
www.omh.ny.gov

From: Rogers, Anne <Anne.Rogers@aecom.com>
Sent: Thursday, October 31, 2019 10:43 AM
To: Duffy, Matthew M (OMH) <Matthew.Duffy@omh.ny.gov>; Brennan, Sean P (OMH) <Sean.Brennan@omh.ny.gov>
Cc: Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>; Rotella, John P (OMH) <John.Rotella@omh.ny.gov>
Subject: Closure notification for tanks 20, 36, & 36A

Hi Matt and Sean,

Attached is the 30-day notification for closure for tanks 20, 36, and 36A at the Rockland old power plant. Please review, sign and date the form. (I left the name and title blocks blank so either one of you can sign it.)

Email the completed form to Jack Aversa at DEC in Albany and Josh Cummins at Region 3 in New Paltz . Please copy me and Chandra.

Mail the form to Josh Cummins at:
NYS DEC Region 3
Petroleum Bulk Storage Program
21 South Putt Corners Road
New Paltz, NY 12561-1696
845-256-3166 / fax 845-255-2987

Thanks,
Anne

Anne Rogers
Regulatory Compliance Specialist, Environment
M +1-518-209-6690 (Primary Number)
D +1-518-951-2209
anne.rogers@aecom.com

AECOM
40 British American Boulevard
Latham, NY 12110, USA
T +1-518-951-2200
F +1-518-951-2300
aecom.com

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LinkedIn Twitter Facebook Instagram

ATTACHMENT D

PHOTOGRAPHIC LOG

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
001	01/30/2020

Location Photo Taken:

Outside Bldg. 183 Central Utility Plant

Description:

Critical Energy Services transfers filtered and polished diesel fuel from UST Tank 20 and AST Tank 36 to an in-service tank prior to decommissioning of Tanks 20 and 36.

Photo No.	Date:
002	02/03/2020

Location Photo Taken:

AST Tank 36 outside Bldg. 50

Description:

Tank 36 has been removed from area between stack and building. Associated piping being removed, cleaned, and staged for recycling as scrap metal.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
003	02/03/2020

Location Photo Taken:

AST Tank 36

Description:

Concrete encasement being removed from Convault® Tank 36.

Photo No.	Date:
004	02/04/2020

Location Photo Taken:

AST Tank 36

Description:

Concrete removed from Convault® Tank 36.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
005	02/05/2020

Location Photo Taken:

AST Tank 36

Description:

View of AST Tank 36 cut open to facilitate cleaning.

Photo No.	Date:
006	02/05/2020

Location Photo Taken:

AST Tank 36

Description:

View of former Tank 36 area following tank removal.

URS	PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
007	02/05/2020

Location Photo Taken:

UST Tank 20 outside Bldg. 50

Description:

Excavation area prior to the removal of UST Tank 20.

Photo No.	Date:
008	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

View of UST Tank 20 being excavated. The soil surrounding the UST was excavated prior to tank removal.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
009	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

Excavator preparing to remove UST Tank 20, surrounding soil has been removed.

Photo No.	Date:
010	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

UST Tank 20 in the process of being removed from excavated area.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
011	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

UST Tank 20 being placed on poly sheet prior to tank cleaning.

Photo No.	Date:
012	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

View of UST Tank 20 cut open to facilitate cleaning.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
013	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

View of UST Tank 20 interior after cleaning.

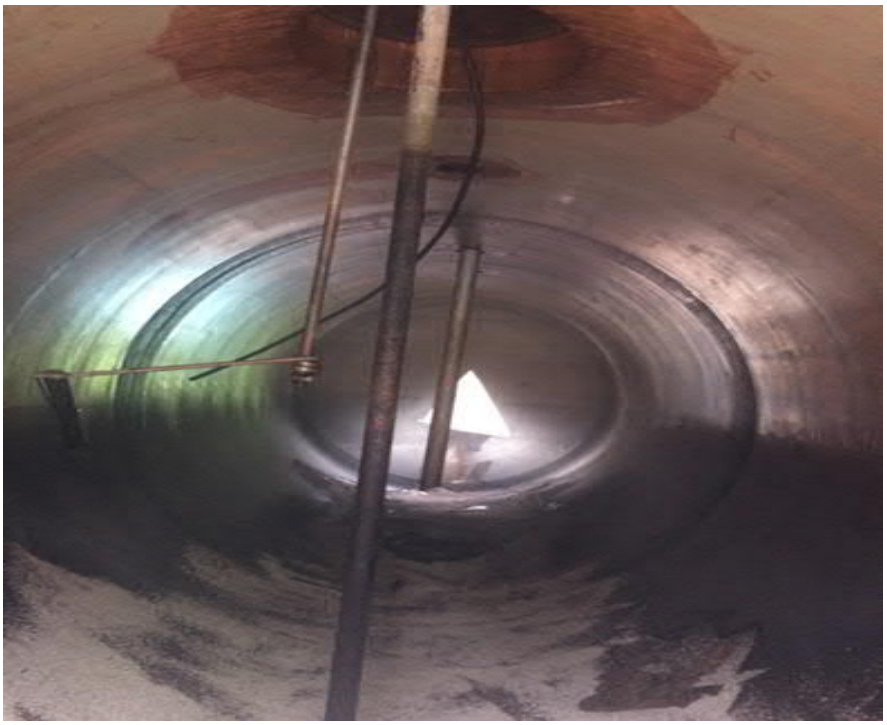

Photo No.	Date:
014	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

UST Tank 20 being placed in a roll-off container following excavation and cleaning.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
015	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

View of excavator assisting post excavation sampling.

Photo No.	Date:
016	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

Soil samples being collected and screened prior to backfilling of the excavation.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
017	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

Removal of pipes in the excavation area following the removal of the UST.

Photo No.	Date:
018	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

Cleaning of pipes outside of the excavation area.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
019	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

PID monitoring the backfill soil during the backfilling of the excavation area.

Photo No.	Date:
020	02/06/2020

Location Photo Taken:

UST Tank 20

Description:

Material to be used to backfill the excavation area.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
021	02/07/2020

Location Photo Taken:

UST Tank 20

Description:

Material to be used to backfill the excavation area.

Photo No.	Date:
022	02/07/2020

Location Photo Taken:

UST Tank 20

Description:

PID monitoring the backfill material during backfilling of the excavation area.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
023	02/07/2020

Location Photo Taken:

UST Tank 20

Description:

Excavation area following the tank removal. Excavation area backfilled with clean material.

Photo No.	Date:
024	02/06/2020

Location Photo Taken:

AST Tank 21 in Bldg. 50

Description:

AST Tank 21 being dismantled and cleaned prior to being removed and disposed as scrap metal.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
025	02/07/2020

Location Photo Taken:

AST Tank 22 in Bldg. 50

Description:

AST Tank 22 being cleaned prior to being removed and disposed as scrap metal.

Photo No.	Date:
026	01/27/2020

Location Photo Taken:

AST Tank 36A in Bldg. 50

Description:

AST Tank 36A prior to decommissioning.

URS

PHOTOGRAPHIC LOG

Client Name:	Site Address:	Project No.
Rockland Psychiatric Center	140 Old Orangeburg, Orangeburg, NY 10962	60495438-1T

Photo No.	Date:
027	02/07/2020

Location Photo Taken:

AST Tank 36A

Description:

AST Tank 36A was cleaned prior to being removed and disposed as scrap metal.

Photo No.	Date:
028	02/7/2020

Location Photo Taken:

AST Tank 36A

Description:

View of former AST Tank 36A area and capped pipes.

ATTACHMENT E

CONTRACTOR TANK CLOSURE AFFIDAVIT

AND SUPPORTING DOCUMENTATION

aventura
CONSTRUCTION CORP.

CONSTRUCTION MANAGEMENENMENT • CONSULTING • GENERAL CONTRACTING

AFFIDAVIT

Re: Tank Removal @ Rockland Psychiatric Center
140 Old Orangeburg Road
Orangeburg, NY 10962

This letter is to confirm that from Friday January 31, 2020 through Monday February 10, 2020, Aventura Construction Corp. removed the following tanks:

- (1) 275 gallon above ground steel day tank -- tank # 21
- (1) 275 gallon above ground steel day tank -- tank # 22
- (1) 25 gallon above ground steel day tank -- tank # 36A
- (1) 1,000 gallon above concrete-encased ground steel tank -- tank # 36
- (1) 8,000 gallon fiberglass underground tank -- tank # 20

A vacuum truck was used to remove of all liquids from these tanks. A liquid manifest for 1,757 gallons is attached. All tanks were cleaned. The steel tanks were cut up, deemed useless and discarded as scrap. Scrap receipts are attached. The fiberglass tank was crushed in a dumpster. A letter from our dumpster company is attached. The area at the underground tank -- tank # 20 -- was backfilled with Type 2 Subbase (also known as Item 4). A letter of clean fill is attached.

All work was done in accordance with all New York State and federal regulations.

If you have any further questions concerning this matter, feel free to contact this office at 631-654-0660.

Sincerely,

DS Fastuca 2/12/20

Sal Fastuca

Sworn to before me this 12th day of February, 2020

Marni A. DeMeyer

Notary Public

Marni A DeMeyer
Notary Public, State of New York
Registration #01DE6211175
Qualified in Suffolk County
Commission Expires Oct. 14, 20 21

MANIFEST

MANIFEST DOC NO: 291167WA

Generator	Transporter	Facility
Generator Name: ROCKLAND PSYCHIATRIC CENTER / OGS **Generator ID:** 32155 **Address:** 140 OLD ORANGEBURG ROAD ORANGEBURG 10962	**Transporter Name:** AB OIL SERVICE LTD **Address:** 1599 Ocean Ave. Bohemia **Zip:** 11716 **EPA ID:** NYD987023371	**Facility Name:** AB OIL SERVICE LTD **Address:** 1599 Ocean Ave Bohemia 11716 **Zip:** 11716 **EPA ID:** NYD987023371

SHIPPING NAME AND DESCRIPTION	NUMCONT	CONTTYPE	QUANTITY	UNIT	PROFILE ID
CONTAMINATED FUEL OIL	0	TT	- 1508	G	N002
USED ENGINE LUBRICATING OIL	0	TT	-	G	N001
TANK BOTTOMS - FUEL OIL	0	TT	- 2 1/9	G	N013

ADDITIONAL DESCRIPTION FOR MATERIAL LISTED ABOVE

1757 Sc 115

SPECIAL HANDLING INSTRUCTION AND ADDITIONAL INFORMATION

DISCREPANCY INDICATION SPACE

Generator's Certification:

I certify that the materials described above are not subjected to federal regulations for reporting proper hazardous waste

Matthew Dusty PRINTED/TYPED NAME _____ SIGNATURE 1/31/2020 DATE

TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Todd Tuttle PRINTED/TYPED NAME _____ SIGNATURE 1/31/2020 DATE

TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

_____ PRINTED/TYPED NAME _____ SIGNATURE _____ DATE

FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIAL COVERED BY THIS MANIFEST EXCEPT AS NOTED ABOVE.

Sean Timothy PRINTED/TYPED NAME _____ SIGNATURE 1/31/20 DATE

PAYMENT RECEIPT

Teplitz Metal Processing
108 West Nyack Road
Nanuet, NY 10954
845-623-0040 DMV#7104668

Receipt: 0322755 **Date:** 02/10/2020
Customer: 44654 **Time:** 12:44
GUSTAVO MEJIA GUZMAN
1007 SUFFOLK AVE
BRENTWOOD, NY 11717
Driver's License: 183 158 605 NY

Ticket: 328324 **Weigh In:** 02/10/2020 12:32
Operator: 9 **Weigh Out:** 02/10/2020 12:44
Description: Pickup Trk w/Trailer PO

All weights in pounds. M indicates manual weight

Commodity	Gross	Tare	Net	Price	TOTAL $
Unp. Tanks	17460	15120	2340	120.000/GT	$125.36
				Ticket Total	$125.36

# of Tickets: 1

Total Paid **$126.00**

Paid by EZCash

Rounded upto nearest $1.00

TEPLITZ METAL PROCESSING
NYSDMV# 7104668

2

ROBERT HIEP, INC.
PO Box 220
West Nyack, NY 10994
Phone: 845-358-7070 Fax: 845-358-3257

2/11/20

Aventura Construction Services
1101 Waverly Ave
Holtsville, NY 11742

To Whom It May Concern:

This letter serves to state that Robert Hiep Inc supplied a 20 yard roll off container To Aventura Construction for the removal of One (1) 8,000 gallon double wall fiber glass tank. The tank was removed from Rockland Psychiatric Center 140 Old Orangeburg Rd, Orangeburg NY This debris was disposed of at Rockland County Solid Waste Mgmt Authority, 166 NY-303, West Nyack, NY 10994

Sincerely,

Robert Hiep
Hiep Sanitation

ROCKLAND COUNTY SOLID WASTE MGMT AUTHORITY
420 TORNE VALLEY ROAD HILLBURN, NY 10931
PHONE: (845) 753-2200 FAX: (845) 753-2281

SITE	HAULER ID
Clarkstown	Hiepr

BILL TO	BILL TO	BILL TO
Hiepr	ROBERT HIEP, INC.	22 Snake Hill Road West Nyack, NY 10994

SITE	DATE	ENTRY TIME	OPER	EXIT TIME	OPER	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
02	02/11/20	11:26	ELA	11:26	ELA	39640	34650	4990

VEHICLE/TRAILER #	VEHICLE TYPE	TICKET NUMBER	MANIFEST#/BOL	C.C TYPE/FACILTY	REFERENCE
02-4934 02-8-218	Rolloff 20 yd	2577087		Transfer Stati	83297MH

DESCRIPTION	QTY	UNITS	RATE	AMOUNT	ORIGIN
CD (Construction & Debris Commerical)	2.50	TN	$99.00	$247.01	Orangetown

C.C. APPROVAL: 1 - Charge
C.C. HOLDER NAME:
C.C. NUMBER

YES	NO	WAX	RECYCLE GARBAGE	RECYCLE MIX	REBATE OTHER

MRF SIGNATURE

I hereby certify that the above information is true to the best of my knowledge. If this is a credit card transaction, the cardholder will pay card issuer the above amount pursuant to the cardholder agreement (Merchant agreement if credit card voucher).

PRINT
Note:

SIGNATURE

TOTAL
$247.01

30

TILCON
A CRH COMPANY

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

January 31, 2020

LJC Trucking
P.O. Box 644
Stony Point, NY

Dear Mr. Bertalino;

As it is produced by our West Nyack quarry, Type 2 Subbase (also known as Item#4) is manufactured to meet New York State Department of Transportation (NYSDOT) and ASTM Standard Specifications.

Our West Nyack Quarry (#8-8R source) supplies 100% virgin trap rock (diabase) that is quarried and processed to finished sizes. Material shipped from our West Nyack facility is clean and free of contaminants prior to loading. Our West Nyack quarry was approved by the NYSDOT under Test No. 18AR75 and the letter to this effect is attached.

If you have any questions or require additional information, please contact me at kchristodoulou@tilconny.com

Very truly yours,
TILCON NEW YORK, INC.

Konstantina Christodoulou

Konstantina Christodoulou
Quality Control Department

4

ATTACHMENT F

LABORATORY ANALYTICAL REPORT

CHEMTECH

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS

PROJECT NAME : ROCKLAND PSYCHIATRIC CENTER

URS CORPORATION

40 British American Boulevard

Latham, NY - 12110

Phone No: 518-951-2200

ORDER ID : L1470

ATTENTION : Balachandra Sudarshan

Table Of Contents for L1470

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
PE-1-(BASE)	L1470-02	8260C	8270D				Chemtech -SOP
PE-2-(BASE)	L1470-03	8260C	8270D				Chemtech -SOP
PE-3-(SIDE-WALL)-EAST	L1470-04	8260C	8270D				Chemtech -SOP
PE-4-(SIDE-WALL)-WEST	L1470-05	8260C	8270D				Chemtech -SOP
PE-5-(SIDE-WALL)-SOUTH	L1470-06	8260C	8270D				Chemtech -SOP
PE-6-(SIDE-WALL)-NORTH	L1470-07	8260C	8270D				Chemtech -SOP
PE-7-(BELOW-PIPE)-NW	L1470-08	8260C	8270D				Chemtech -SOP
WS-1-(BASE-WATER)	L1470-09	8260C, 8260-Low	8270D				Chemtech -SOP
WS-1A-(DUPLICATE)	L1470-10	8260C, 8260-Low	8270D				Chemtech -SOP
PE-6A-(DUPLICATE)	L1470-11	8260C, 8260-Low	8270D				Chemtech -SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
L1470-02	SOIL	02/06/20	02/07/20	02/10/20	02/10/20
L1470-03	SOIL	02/06/20	02/07/20	02/10/20	02/10/20
L1470-04	SOIL	02/06/20	02/07/20	02/10/20	02/10/20
L1470-05	SOIL	02/06/20	02/07/20	02/10/20	02/11/20
L1470-06	SOIL	02/06/20	02/07/20	02/10/20	02/10/20
L1470-07	SOIL	02/06/20	02/07/20	02/10/20	02/10/20
L1470-08	SOIL	02/06/20	02/07/20	02/10/20	02/10/20
L1470-09	Water	02/06/20	02/07/20	02/10/20	02/11/20
L1470-10	Water	02/06/20	02/07/20	02/10/20	02/11/20
L1470-11	SOIL	02/06/20	02/07/20	02/10/20	02/10/20

*** Details For Test :** SVOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
L1470-02	SOIL	02/06/20	02/07/20		02/07/20
L1470-03	SOIL	02/06/20	02/07/20		02/07/20
L1470-04	SOIL	02/06/20	02/07/20		02/07/20
L1470-05	SOIL	02/06/20	02/07/20		02/10/20
L1470-06	SOIL	02/06/20	02/07/20		02/10/20
L1470-07	SOIL	02/06/20	02/07/20		02/10/20
L1470-08	SOIL	02/06/20	02/07/20		02/10/20
L1470-09	Water	02/06/20	02/07/20		02/11/20
L1470-10	Water	02/06/20	02/07/20		02/11/20
L1470-11	SOIL	02/06/20	02/07/20		02/10/20

*** Details For Test :** VOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
L1470-02	Solid	8260C	5035		
L1470-03	Solid	8260C	5035		
L1470-04	Solid	8260C	5035		
L1470-05	Solid	8260C	5035		
L1470-06	Solid	8260C	5035		
L1470-07	Solid	8260C	5035		
L1470-08	Solid	8260C	5035		
L1470-09	Water	8260-Low	5030		
L1470-10	Water	8260-Low	5030		
L1470-11	Solid	8260C	5035		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
L1470-02	Solid	8270D	3541		
L1470-03	Solid	8270D	3541		
L1470-04	Solid	8270D	3541		
L1470-05	Solid	8270D	3541		
L1470-06	Solid	8270D	3541		
L1470-07	Solid	8270D	3541		
L1470-08	Solid	8270D	3541		
L1470-09	Water	8270D	NA		
L1470-10	Water	8270D	NA		
L1470-11	Solid	8270D	3541		

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : L1470

Project ID : Rockland Psychiatric Center

Client : URS Corporation

Lab Sample Number	Client Sample Number
L1470-02	PE-1-(BASE)
L1470-03	PE-2-(BASE)
L1470-04	PE-3-(SIDE-WALL)-EAST
L1470-05	PE-4-(SIDE-WALL)-WEST
L1470-06	PE-5-(SIDE-WALL)-SOUTH
L1470-07	PE-6-(SIDE-WALL)-NORTH
L1470-08	PE-7-(BELOW-PIPE)-NW
L1470-09	WS-1-(BASE-WATER)
L1470-10	WS-1A-(DUPLICATE)
L1470-11	PE-6A-(DUPLICATE)

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:59 pm, Feb 21, 2020

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

URS Corporation
Project Name: Rockland Psychiatric Center
Project # N/A
Chemtech Project # L1470
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 02/07/2020.
2 Water samples were received on 02/07/2020.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator.The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOCMS Group1 was based on method 8260-Low,8260C.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
Samples # 09 & 10 have high pH reading. Analyst observed pH # 7.0 using pH paper .

As per special requirement for this project form-1 are reported in mg/kg.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:59 pm, Feb 21, 2020

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

URS Corporation
Project Name: Rockland Psychiatric Center
Project # N/A
Chemtech Project # L1470
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 02/07/2020.
2 Water samples were received on 02/07/2020.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270D and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
As per special requirement for this project form-1 are reported in mg/kg.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ 

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:59 pm, Feb 21, 2020

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: L1470

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: APARNA SONI **Date:** 02/20/2020

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:00 pm, Feb 21, 2020

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	L1470	**OrderDate:**	2/7/2020 12:16:00 PM
Client:	URS Corporation	**Project:**	Rockland Psychiatric Center
Contact:	Balachandra Sudarshan	**Location:**	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
L1470-02	**PE-1-(BASE)**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/07/20	
L1470-03	**PE-2-(BASE)**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/07/20	
L1470-04	**PE-3-(SIDE-WALL)-EAST**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/07/20	
L1470-05	**PE-4-(SIDE-WALL)-WEST**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/10/20	
L1470-06	**PE-5-(SIDE-WALL)-SOUTH**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/10/20	
L1470-07	**PE-6-(SIDE-WALL)-NORTH**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/10/20	
L1470-08	**PE-7-(BELOW-PIPE)-NW**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/10/20	
L1470-09	**WS-1-(BASE-WATER)**	**Water**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260-Low			02/11/20	
L1470-10	**WS-1A-(DUPLICATE)**	**Water**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260-Low			02/11/20	
L1470-11	**PE-6A-(DUPLICATE)**	**SOIL**			**02/06/20**			**02/07/20**
			VOCMS Group1	8260C			02/10/20	

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Hit Summary Sheet
SW-846

SDG No.: L1470

Client: URS Corporation

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0.00				

Total Voc :

Total Concentration:

SAMPLE DATA

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)	SDG No.:	L1470
Lab Sample ID:	L1470-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	10.3
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY001573.D	1		02/07/20 22:19	VY020720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0055	U	0.0015	0.0055	mg/Kg
71-43-2	Benzene	0.0055	U	0.00092	0.0055	mg/Kg
108-88-3	Toluene	0.0055	U	0.0011	0.0055	mg/Kg
100-41-4	Ethyl Benzene	0.0055	U	0.00093	0.0055	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0055	U	0.0012	0.0055	mg/Kg
98-82-8	Isopropylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
103-65-1	n-propylbenzene	0.0055	U	0.00069	0.0055	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0055	U	0.00086	0.0055	mg/Kg
98-06-6	tert-Butylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0055	U	0.0010	0.0055	mg/Kg
135-98-8	sec-Butylbenzene	0.0055	U	0.00084	0.0055	mg/Kg
99-87-6	p-Isopropyltoluene	0.0055	U	0.00087	0.0055	mg/Kg
104-51-8	n-Butylbenzene	0.0055	U	0.00088	0.0055	mg/Kg
91-20-3	Naphthalene	0.0055	U	0.0013	0.0055	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.3		56 - 120	115%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		57 - 135	101%	SPK: 50
2037-26-5	Toluene-d8	55.4		67 - 123	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		33 - 141	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	7.83			
540-36-3	1,4-Difluorobenzene	291000	8.72			
3114-55-4	Chlorobenzene-d5	264000	11.51			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.44			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-2-(BASE)	SDG No.:	L1470
Lab Sample ID:	L1470-03	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	10.8
Sample Wt/Vol:	4.99 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY001574.D	1		02/07/20 22:41	VY020720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0056	U	0.0016	0.0056	mg/Kg
71-43-2	Benzene	0.0056	U	0.00094	0.0056	mg/Kg
108-88-3	Toluene	0.0056	U	0.0011	0.0056	mg/Kg
100-41-4	Ethyl Benzene	0.0056	U	0.00096	0.0056	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0019	0.011	mg/Kg
95-47-6	o-Xylene	0.0056	U	0.0012	0.0056	mg/Kg
98-82-8	Isopropylbenzene	0.0056	U	0.00097	0.0056	mg/Kg
103-65-1	n-propylbenzene	0.0056	U	0.00071	0.0056	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0056	U	0.00088	0.0056	mg/Kg
98-06-6	tert-Butylbenzene	0.0056	U	0.00097	0.0056	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0056	U	0.0010	0.0056	mg/Kg
135-98-8	sec-Butylbenzene	0.0056	U	0.00086	0.0056	mg/Kg
99-87-6	p-Isopropyltoluene	0.0056	U	0.00089	0.0056	mg/Kg
104-51-8	n-Butylbenzene	0.0056	U	0.00091	0.0056	mg/Kg
91-20-3	Naphthalene	0.0056	U	0.0014	0.0056	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		56 - 120	114%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		57 - 135	101%	SPK: 50
2037-26-5	Toluene-d8	53.8		67 - 123	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.4		33 - 141	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	7.83			
540-36-3	1,4-Difluorobenzene	296000	8.72			
3114-55-4	Chlorobenzene-d5	248000	11.51			
3855-82-1	1,4-Dichlorobenzene-d4	90200	13.44			

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-3-(SIDE-WALL)-EAST	SDG No.:	L1470
Lab Sample ID:	L1470-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	11.1
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY001575.D	1		02/07/20 23:03	VY020720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0056	U	0.0016	0.0056	mg/Kg
71-43-2	Benzene	0.0056	U	0.00094	0.0056	mg/Kg
108-88-3	Toluene	0.0056	U	0.0011	0.0056	mg/Kg
100-41-4	Ethyl Benzene	0.0056	U	0.00096	0.0056	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0019	0.011	mg/Kg
95-47-6	o-Xylene	0.0056	U	0.0012	0.0056	mg/Kg
98-82-8	Isopropylbenzene	0.0056	U	0.00097	0.0056	mg/Kg
103-65-1	n-propylbenzene	0.0056	U	0.00071	0.0056	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0056	U	0.00088	0.0056	mg/Kg
98-06-6	tert-Butylbenzene	0.0056	U	0.00097	0.0056	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0056	U	0.0010	0.0056	mg/Kg
135-98-8	sec-Butylbenzene	0.0056	U	0.00086	0.0056	mg/Kg
99-87-6	p-Isopropyltoluene	0.0056	U	0.00089	0.0056	mg/Kg
104-51-8	n-Butylbenzene	0.0056	U	0.00091	0.0056	mg/Kg
91-20-3	Naphthalene	0.0056	U	0.0014	0.0056	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.9		56 - 120	116%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		57 - 135	101%	SPK: 50
2037-26-5	Toluene-d8	55.1		67 - 123	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		33 - 141	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	7.83			
540-36-3	1,4-Difluorobenzene	286000	8.72			
3114-55-4	Chlorobenzene-d5	259000	11.51			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.44			

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-4-(SIDE-WALL)-WEST	SDG No.:	L1470
Lab Sample ID:	L1470-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	8.6
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065128.D	1		02/10/20 12:55	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0054	U	0.0015	0.0054	mg/Kg
71-43-2	Benzene	0.0054	U	0.00090	0.0054	mg/Kg
108-88-3	Toluene	0.0054	U	0.0010	0.0054	mg/Kg
100-41-4	Ethyl Benzene	0.0054	U	0.00092	0.0054	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0054	U	0.0012	0.0054	mg/Kg
98-82-8	Isopropylbenzene	0.0054	U	0.00093	0.0054	mg/Kg
103-65-1	n-propylbenzene	0.0054	U	0.00068	0.0054	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0054	U	0.00085	0.0054	mg/Kg
98-06-6	tert-Butylbenzene	0.0054	U	0.00093	0.0054	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0054	U	0.00099	0.0054	mg/Kg
135-98-8	sec-Butylbenzene	0.0054	U	0.00082	0.0054	mg/Kg
99-87-6	p-Isopropyltoluene	0.0054	U	0.00085	0.0054	mg/Kg
104-51-8	n-Butylbenzene	0.0054	U	0.00087	0.0054	mg/Kg
91-20-3	Naphthalene	0.0054	U	0.0013	0.0054	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		56 - 120	103%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		57 - 135	109%	SPK: 50
2037-26-5	Toluene-d8	54.0		67 - 123	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		33 - 141	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	525000	7.98			
540-36-3	1,4-Difluorobenzene	820000	8.87			
3114-55-4	Chlorobenzene-d5	787000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	321000	13.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-5-(SIDE-WALL)-SOUTH	SDG No.:	L1470
Lab Sample ID:	L1470-06	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	9.2
Sample Wt/Vol:	5.04 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065138.D	1		02/10/20 17:43	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0055	U	0.0015	0.0055	mg/Kg
71-43-2	Benzene	0.0055	U	0.00092	0.0055	mg/Kg
108-88-3	Toluene	0.0055	U	0.0011	0.0055	mg/Kg
100-41-4	Ethyl Benzene	0.0055	U	0.00093	0.0055	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0055	U	0.0012	0.0055	mg/Kg
98-82-8	Isopropylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
103-65-1	n-propylbenzene	0.0055	U	0.00069	0.0055	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0055	U	0.00086	0.0055	mg/Kg
98-06-6	tert-Butylbenzene	0.0055	U	0.00094	0.0055	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0055	U	0.0010	0.0055	mg/Kg
135-98-8	sec-Butylbenzene	0.0055	U	0.00083	0.0055	mg/Kg
99-87-6	p-Isopropyltoluene	0.0055	U	0.00087	0.0055	mg/Kg
104-51-8	n-Butylbenzene	0.0055	U	0.00088	0.0055	mg/Kg
91-20-3	Naphthalene	0.0055	U	0.0013	0.0055	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		56 - 120	112%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		57 - 135	109%	SPK: 50
2037-26-5	Toluene-d8	55.0		67 - 123	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	64.7		33 - 141	129%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	461000	7.99			
540-36-3	1,4-Difluorobenzene	766000	8.87			
3114-55-4	Chlorobenzene-d5	793000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	395000	13.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-6-(SIDE-WALL)-NORTH	SDG No.:	L1470
Lab Sample ID:	L1470-07	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	9.4
Sample Wt/Vol:	5.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065130.D	1		02/10/20 13:53	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0055	U	0.0015	0.0055	mg/Kg
71-43-2	Benzene	0.0055	U	0.00092	0.0055	mg/Kg
108-88-3	Toluene	0.0055	U	0.0011	0.0055	mg/Kg
100-41-4	Ethyl Benzene	0.0055	U	0.00093	0.0055	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0055	U	0.0012	0.0055	mg/Kg
98-82-8	Isopropylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
103-65-1	n-propylbenzene	0.0055	U	0.00069	0.0055	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0055	U	0.00086	0.0055	mg/Kg
98-06-6	tert-Butylbenzene	0.0055	U	0.00094	0.0055	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0055	U	0.0010	0.0055	mg/Kg
135-98-8	sec-Butylbenzene	0.0055	U	0.00083	0.0055	mg/Kg
99-87-6	p-Isopropyltoluene	0.0055	U	0.00087	0.0055	mg/Kg
104-51-8	n-Butylbenzene	0.0055	U	0.00088	0.0055	mg/Kg
91-20-3	Naphthalene	0.0055	U	0.0013	0.0055	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		56 - 120	102%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		57 - 135	109%	SPK: 50
2037-26-5	Toluene-d8	54.3		67 - 123	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		33 - 141	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	502000	7.98			
540-36-3	1,4-Difluorobenzene	797000	8.87			
3114-55-4	Chlorobenzene-d5	758000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	298000	13.58			

U = Not Detected
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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-7-(BELOW-PIPE)-NW	SDG No.:	L1470
Lab Sample ID:	L1470-08	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	7.8
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065131.D	1		02/10/20 14:22	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0054	U	0.0015	0.0054	mg/Kg
71-43-2	Benzene	0.0054	U	0.00091	0.0054	mg/Kg
108-88-3	Toluene	0.0054	U	0.0011	0.0054	mg/Kg
100-41-4	Ethyl Benzene	0.0054	U	0.00092	0.0054	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0054	U	0.0012	0.0054	mg/Kg
98-82-8	Isopropylbenzene	0.0054	U	0.00094	0.0054	mg/Kg
103-65-1	n-propylbenzene	0.0054	U	0.00068	0.0054	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0054	U	0.00085	0.0054	mg/Kg
98-06-6	tert-Butylbenzene	0.0054	U	0.00093	0.0054	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0054	U	0.00099	0.0054	mg/Kg
135-98-8	sec-Butylbenzene	0.0054	U	0.00083	0.0054	mg/Kg
99-87-6	p-Isopropyltoluene	0.0054	U	0.00086	0.0054	mg/Kg
104-51-8	n-Butylbenzene	0.0054	U	0.00087	0.0054	mg/Kg
91-20-3	Naphthalene	0.0054	U	0.0013	0.0054	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.0		56 - 120	108%	SPK: 50
1868-53-7	Dibromofluoromethane	55.6		57 - 135	111%	SPK: 50
2037-26-5	Toluene-d8	55.1		67 - 123	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	64.2		33 - 141	128%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	501000	7.98			
540-36-3	1,4-Difluorobenzene	803000	8.87			
3114-55-4	Chlorobenzene-d5	839000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	404000	13.58			

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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	WS-1-(BASE-WATER)	SDG No.:	L1470
Lab Sample ID:	L1470-09	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014912.D	1		02/11/20 13:32	VX021120

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
91-20-3	Naphthalene	1.00	U	0.48	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		61 - 141	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		69 - 133	98%	SPK: 50
2037-26-5	Toluene-d8	50.9		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		58 - 135	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	439000	5.65			
540-36-3	1,4-Difluorobenzene	689000	6.85			
3114-55-4	Chlorobenzene-d5	647000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	345000	12.07			

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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	WS-1A-(DUPLICATE)	SDG No.:	L1470
Lab Sample ID:	L1470-10	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014911.D	1		02/11/20 13:09	VX021120

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
91-20-3	Naphthalene	1.00	U	0.48	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		61 - 141	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		69 - 133	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		65 - 126	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		58 - 135	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	455000	5.65			
540-36-3	1,4-Difluorobenzene	702000	6.86			
3114-55-4	Chlorobenzene-d5	664000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	348000	12.07			

U = Not Detected
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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-6A-(DUPLICATE)	SDG No.:	L1470
Lab Sample ID:	L1470-11	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	9.8
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065132.D	1		02/10/20 14:50	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0055	U	0.0015	0.0055	mg/Kg
71-43-2	Benzene	0.0055	U	0.00092	0.0055	mg/Kg
108-88-3	Toluene	0.0055	U	0.0011	0.0055	mg/Kg
100-41-4	Ethyl Benzene	0.0055	U	0.00094	0.0055	mg/Kg
179601-23-1	m/p-Xylenes	0.011	U	0.0018	0.011	mg/Kg
95-47-6	o-Xylene	0.0055	U	0.0012	0.0055	mg/Kg
98-82-8	Isopropylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
103-65-1	n-propylbenzene	0.0055	U	0.00069	0.0055	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0055	U	0.00086	0.0055	mg/Kg
98-06-6	tert-Butylbenzene	0.0055	U	0.00095	0.0055	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0055	U	0.0010	0.0055	mg/Kg
135-98-8	sec-Butylbenzene	0.0055	U	0.00084	0.0055	mg/Kg
99-87-6	p-Isopropyltoluene	0.0055	U	0.00087	0.0055	mg/Kg
104-51-8	n-Butylbenzene	0.0055	U	0.00088	0.0055	mg/Kg
91-20-3	Naphthalene	0.0055	U	0.0013	0.0055	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		56 - 120	104%	SPK: 50
1868-53-7	Dibromofluoromethane	55.1		57 - 135	110%	SPK: 50
2037-26-5	Toluene-d8	54.9		67 - 123	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.5		33 - 141	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	498000	7.98			
540-36-3	1,4-Difluorobenzene	794000	8.87			
3114-55-4	Chlorobenzene-d5	768000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	311000	13.58			

U = Not Detected
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LOD = Limit of Detection
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QC SUMMARY

Surrogate Summary

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260C

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
L1470-02	PE-1-(BASE)	1,2-Dichloroethane-d4	50	57.3	115	56	120
		Dibromofluoromethane	50	50.4	101	57	135
		Toluene-d8	50	55.4	111	67	123
		4-Bromofluorobenzene	50	48.7	97	33	141
L1470-03	PE-2-(BASE)	1,2-Dichloroethane-d4	50	56.9	114	56	120
		Dibromofluoromethane	50	50.5	101	57	135
		Toluene-d8	50	53.8	108	67	123
		4-Bromofluorobenzene	50	40.4	81	33	141
L1470-04	PE-3-(SIDE-WALL)-EAST	1,2-Dichloroethane-d4	50	57.9	116	56	120
		Dibromofluoromethane	50	50.3	101	57	135
		Toluene-d8	50	55.1	110	67	123
		4-Bromofluorobenzene	50	47.5	95	33	141
L1470-05	PE-4-(SIDE-WALL)-WEST	1,2-Dichloroethane-d4	50	51.3	103	56	120
		Dibromofluoromethane	50	54.7	109	57	135
		Toluene-d8	50	54.0	108	67	123
		4-Bromofluorobenzene	50	55.3	111	33	141
L1470-06	PE-5-(SIDE-WALL)-SOUTH	1,2-Dichloroethane-d4	50	55.9	112	56	120
		Dibromofluoromethane	50	54.4	109	57	135
		Toluene-d8	50	55.0	110	67	123
		4-Bromofluorobenzene	50	64.7	129	33	141
L1470-07	PE-6-(SIDE-WALL)-NORTH	1,2-Dichloroethane-d4	50	51.0	102	56	120
		Dibromofluoromethane	50	54.4	109	57	135
		Toluene-d8	50	54.3	109	67	123
		4-Bromofluorobenzene	50	53.8	108	33	141
L1470-08	PE-7-(BELOW-PIPE)-NW	1,2-Dichloroethane-d4	50	54.0	108	56	120
		Dibromofluoromethane	50	55.6	111	57	135
		Toluene-d8	50	55.0	110	67	123
		4-Bromofluorobenzene	50	64.2	128	33	141
L1470-11	PE-6A-(DUPLICATE)	1,2-Dichloroethane-d4	50	51.8	104	56	120
		Dibromofluoromethane	50	55.1	110	57	135
		Toluene-d8	50	54.9	110	67	123
		4-Bromofluorobenzene	50	55.5	111	33	141
VD0210SBL01	VD0210SBL01	1,2-Dichloroethane-d4	50	52.6	105	56	120
		Dibromofluoromethane	50	55.2	110	57	135
		Toluene-d8	50	54.5	109	67	123
		4-Bromofluorobenzene	50	65.6	131	33	141
VD0210SBS01	VD0210SBS01	1,2-Dichloroethane-d4	50	56.0	112	56	120
		Dibromofluoromethane	50	57.7	115	57	135
		Toluene-d8	50	57.1	114	67	123
		4-Bromofluorobenzene	50	56.0	112	33	141
VY0207SBL01	VY0207SBL01	1,2-Dichloroethane-d4	50	55.1	110	56	120
		Dibromofluoromethane	50	50.9	102	57	135
		Toluene-d8	50	55.3	111	67	123
		4-Bromofluorobenzene	50	47.6	95	33	141
VY0207SBS01	VY0207SBS01	1,2-Dichloroethane-d4	50	52.7	105	56	120
		Dibromofluoromethane	50	48.8	98	57	135
		Toluene-d8	50	54.3	109	67	123
		4-Bromofluorobenzene	50	49.5	99	33	141
VY0207SBSD01	VY0207SBSD01	1,2-Dichloroethane-d4	50	52.9	106	56	120
		Dibromofluoromethane	50	48.4	97	57	135
		Toluene-d8	50	53.2	106	67	123
		4-Bromofluorobenzene	50	48.7	97	33	141

Surrogate Summary

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
L1470-09	WS-1-(BASE-WATER)	1,2-Dichloroethane-d4	50	51.1	102	61	141
		Dibromofluoromethane	50	49.1	98	69	133
		Toluene-d8	50	50.9	102	65	126
		4-Bromofluorobenzene	50	51.9	104	58	135
L1470-10	WS-1A-(DUPLICATE)	1,2-Dichloroethane-d4	50	50.5	101	61	141
		Dibromofluoromethane	50	50.1	100	69	133
		Toluene-d8	50	50.9	102	65	126
		4-Bromofluorobenzene	50	52.0	104	58	135
VX0211WBL01	VX0211WBL01	1,2-Dichloroethane-d4	50	50.3	101	61	141
		Dibromofluoromethane	50	49.0	98	69	133
		Toluene-d8	50	50.3	101	65	126
		4-Bromofluorobenzene	50	50.9	102	58	135
VX0211WBS01	VX0211WBS01	1,2-Dichloroethane-d4	50	47.6	95	61	141
		Dibromofluoromethane	50	48.4	97	69	133
		Toluene-d8	50	49.5	99	65	126
		4-Bromofluorobenzene	50	49.3	99	58	135
VX0211WBSD0	VX0211WBSD01	1,2-Dichloroethane-d4	50	48.2	96	61	141
		Dibromofluoromethane	50	48.8	98	69	133
		Toluene-d8	50	49.4	99	65	126
		4-Bromofluorobenzene	50	48.8	98	58	135

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260C **Datafile :** VD065126.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VD0210SBS01	Methyl tert-butyl Ether	20	20.5	ug/Kg	103			76	123	
	Benzene	20	23.0	ug/Kg	115			79	124	
	Toluene	20	23.0	ug/Kg	115			78	124	
	Ethyl Benzene	20	21.9	ug/Kg	110			80	123	
	m/p-Xylenes	40	44.5	ug/Kg	111			79	126	
	o-Xylene	20	21.3	ug/Kg	106			80	122	
	Isopropylbenzene	20	21.7	ug/Kg	109			79	123	
	N-propylbenzene	20	22.4	ug/Kg	112			80	125	
	1,3,5-Trimethylbenzene	20	21.9	ug/Kg	110			81	123	
	tert-Butylbenzene	20	21.1	ug/Kg	106			81	123	
	1,2,4-Trimethylbenzene	20	21.8	ug/Kg	109			81	122	
	Sec-butylbenzene	20	21.9	ug/Kg	110			81	126	
	p-Isopropyltoluene	20	22.2	ug/Kg	111			81	124	
	n-Butylbenzene	20	21.5	ug/Kg	108			75	129	
	Naphthalene	20	19.3	ug/Kg	97			71	126	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260-Low **Datafile :** VX014907.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0211WBS01	Methyl tert-butyl Ether	20	19.1	ug/L	96			72	136	
	Benzene	20	19.6	ug/L	98			75	125	
	Toluene	20	19.6	ug/L	98			74	125	
	Ethyl Benzene	20	19.4	ug/L	97			75	126	
	m/p-Xylenes	40	38.8	ug/L	97			74	126	
	o-Xylene	20	19.6	ug/L	98			73	127	
	Isopropylbenzene	20	20.0	ug/L	100			70	127	
	N-propylbenzene	20	19.5	ug/L	98			71	126	
	1,3,5-Trimethylbenzene	20	20.0	ug/L	100			71	127	
	tert-Butylbenzene	20	20.1	ug/L	101			66	129	
	1,2,4-Trimethylbenzene	20	19.9	ug/L	100			69	130	
	Sec-butylbenzene	20	19.7	ug/L	99			72	126	
	p-Isopropyltoluene	20	19.6	ug/L	98			71	125	
	n-Butylbenzene	20	18.5	ug/L	93			68	128	
	Naphthalene	20	19.4	ug/L	97			62	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260-Low **Datafile :** VX014910.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0211WBSD01	Methyl tert-butyl Ether	20	19.0	ug/L	95	1		72	136	20
	Benzene	20	18.9	ug/L	95	3		75	125	20
	Toluene	20	18.8	ug/L	94	4		74	125	20
	Ethyl Benzene	20	19.2	ug/L	96	1		75	126	20
	m/p-Xylenes	40	37.6	ug/L	94	3		74	126	20
	o-Xylene	20	18.9	ug/L	95	3		73	127	20
	Isopropylbenzene	20	19.3	ug/L	97	3		70	127	20
	N-propylbenzene	20	18.9	ug/L	95	3		71	126	20
	1,3,5-Trimethylbenzene	20	19.4	ug/L	97	3		71	127	20
	tert-Butylbenzene	20	20.0	ug/L	100	1		66	129	20
	1,2,4-Trimethylbenzene	20	19.5	ug/L	98	2		69	130	20
	Sec-butylbenzene	20	19.3	ug/L	97	2		72	126	20
	p-Isopropyltoluene	20	19.0	ug/L	95	3		71	125	20
	n-Butylbenzene	20	18.7	ug/L	94	1		68	128	20
	Naphthalene	20	20.0	ug/L	100	3		62	130	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260C **Datafile :** VY001554.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0207SBS01	Methyl tert-butyl Ether	20	20.1	ug/Kg	101			76	123	
	Benzene	20	20.3	ug/Kg	102			79	124	
	Toluene	20	20.1	ug/Kg	101			78	124	
	Ethyl Benzene	20	19.8	ug/Kg	99			80	123	
	m/p-Xylenes	40	39.7	ug/Kg	99			79	126	
	o-Xylene	20	19.9	ug/Kg	100			80	122	
	Isopropylbenzene	20	19.2	ug/Kg	96			79	123	
	N-propylbenzene	20	19.5	ug/Kg	98			80	125	
	1,3,5-Trimethylbenzene	20	19.1	ug/Kg	96			81	123	
	tert-Butylbenzene	20	19.3	ug/Kg	97			81	123	
	1,2,4-Trimethylbenzene	20	19.2	ug/Kg	96			81	122	
	Sec-butylbenzene	20	19.7	ug/Kg	99			81	126	
	p-Isopropyltoluene	20	19.8	ug/Kg	99			81	124	
	n-Butylbenzene	20	20.1	ug/Kg	101			75	129	
	Naphthalene	20	19.2	ug/Kg	96			71	126	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8260C **Datafile :** VY001555.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0207SBSD01	Methyl tert-butyl Ether	20	19.9	ug/Kg	100	10		76	123	20
	Benzene	20	20.0	ug/Kg	100	10		79	124	20
	Toluene	20	20.0	ug/Kg	100	10		78	124	20
	Ethyl Benzene	20	19.5	ug/Kg	98	10		80	123	20
	m/p-Xylenes	40	39.2	ug/Kg	98	10		79	126	20
	o-Xylene	20	19.6	ug/Kg	98	9		80	122	20
	Isopropylbenzene	20	18.6	ug/Kg	93	9		79	123	20
	N-propylbenzene	20	19.2	ug/Kg	96	8		80	125	20
	1,3,5-Trimethylbenzene	20	18.4	ug/Kg	92	9		81	123	20
	tert-Butylbenzene	20	18.7	ug/Kg	94	5		81	123	20
	1,2,4-Trimethylbenzene	20	18.6	ug/Kg	93	10		81	122	20
	Sec-butylbenzene	20	18.9	ug/Kg	95	9		81	126	20
	p-Isopropyltoluene	20	19.0	ug/Kg	95	10		81	124	20
	n-Butylbenzene	20	19.5	ug/Kg	98	9		75	129	20
	Naphthalene	20	19.6	ug/Kg	98	8		71	126	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VD0210SBL01

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VD065125.D Lab Sample ID: VD0210SBL01

Date Analyzed: 02/10/2020 Time Analyzed: 11:19

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VD0210SBS01	VD0210SBS01	VD065126.D	02/10/2020
PE-4-(SIDE-WALL)-WEST	L1470-05	VD065128.D	02/10/2020
PE-6-(SIDE-WALL)-NORTH	L1470-07	VD065130.D	02/10/2020
PE-7-(BELOW-PIPE)-NW	L1470-08	VD065131.D	02/10/2020
PE-6A-(DUPLICATE)	L1470-11	VD065132.D	02/10/2020
PE-5-(SIDE-WALL)-SOUTH	L1470-06	VD065138.D	02/10/2020

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0207SBL01

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VY001551.D Lab Sample ID: VY0207SBL01

Date Analyzed: 02/07/2020 Time Analyzed: 13:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0207SBS01	VY0207SBS01	VY001554.D	02/07/2020
VY0207SBSD01	VY0207SBSD01	VY001555.D	02/07/2020
PE-1-(BASE)	L1470-02	VY001573.D	02/07/2020
PE-2-(BASE)	L1470-03	VY001574.D	02/07/2020
PE-3-(SIDE-WALL)-EAST	L1470-04	VY001575.D	02/07/2020

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0211WBL01

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VX014906.D Lab Sample ID: VX0211WBL01

Date Analyzed: 02/11/2020 Time Analyzed: 10:55

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0211WBS01	VX0211WBS01	VX014907.D	02/11/2020
VX0211WBSD01	VX0211WBSD01	VX014910.D	02/11/2020
WS-1A-(DUPLICATE)	L1470-10	VX014911.D	02/11/2020
WS-1-(BASE-WATER)	L1470-09	VX014912.D	02/11/2020

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VD065058.D BFB Injection Date: 02/05/2020

Instrument ID: MSVOA_D BFB Injection Time: 09:39

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1.2 (1.3) 1
174	50.0 - 100.0% of mass 95	89.7
175	5.0 - 9.0% of mass 174	7 (7.8) 1
176	95.0 - 101.0% of mass 174	89.5 (99.7) 1
177	5.0 - 9.0% of mass 176	5.8 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VD065060.D	02/05/2020	12:03
VSTDICC010	VSTDICC010	VD065061.D	02/05/2020	12:31
VSTDICC020	VSTDICC020	VD065062.D	02/05/2020	12:59
VSTDICCC050	VSTDICCC050	VD065063.D	02/05/2020	14:36
VSTDICC100	VSTDICC100	VD065064.D	02/05/2020	15:03
VSTDICC150	VSTDICC150	VD065065.D	02/05/2020	15:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VD065123.D BFB Injection Date: 02/10/2020

Instrument ID: MSVOA_D BFB Injection Time: 09:28

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.4 (1.5) 1
174	50.0 - 100.0% of mass 95	91
175	5.0 - 9.0% of mass 174	7 (7.7) 1
176	95.0 - 101.0% of mass 174	87.4 (96.1) 1
177	5.0 - 9.0% of mass 176	5.9 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VD065124.D	02/10/2020	10:41
VD0210SBL01	VD0210SBL01	VD065125.D	02/10/2020	11:19
VD0210SBS01	VD0210SBS01	VD065126.D	02/10/2020	11:59
PE-4-(SIDE-WALL)-WEST	L1470-05	VD065128.D	02/10/2020	12:55
PE-6-(SIDE-WALL)-NORTH	L1470-07	VD065130.D	02/10/2020	13:53
PE-7-(BELOW-PIPE)-NW	L1470-08	VD065131.D	02/10/2020	14:22
PE-6A-(DUPLICATE)	L1470-11	VD065132.D	02/10/2020	14:50
PE-5-(SIDE-WALL)-SOUTH	L1470-06	VD065138.D	02/10/2020	17:43

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VX014875.D BFB Injection Date: 02/10/2020

Instrument ID: MSVOA_X BFB Injection Time: 09:21

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.2 (1.3) 1
174	50.0 - 100.0% of mass 95	88.9
175	5.0 - 9.0% of mass 174	6.9 (7.7) 1
176	95.0 - 101.0% of mass 174	88 (99.1) 1
177	5.0 - 9.0% of mass 176	5.7 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX014876.D	02/10/2020	09:54
VSTDICC005	VSTDICC005	VX014877.D	02/10/2020	10:16
VSTDICC020	VSTDICC020	VX014878.D	02/10/2020	10:39
VSTDICCC050	VSTDICCC050	VX014879.D	02/10/2020	11:01
VSTDICC100	VSTDICC100	VX014880.D	02/10/2020	11:24
VSTDICC150	VSTDICC150	VX014881.D	02/10/2020	11:46

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VX014903.D BFB Injection Date: 02/11/2020

Instrument ID: MSVOA_X BFB Injection Time: 09:17

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.2
75	30.0 - 60.0% of mass 95	51.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (0.9) 1
174	50.0 - 100.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	84.5 (95.6) 1
177	5.0 - 9.0% of mass 176	5.8 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX014904.D	02/11/2020	09:50
VX0211WBL01	VX0211WBL01	VX014906.D	02/11/2020	10:55
VX0211WBS01	VX0211WBS01	VX014907.D	02/11/2020	11:28
VX0211WBSD01	VX0211WBSD01	VX014910.D	02/11/2020	12:46
WS-1A-(DUPLICATE)	L1470-10	VX014911.D	02/11/2020	13:09
WS-1-(BASE-WATER)	L1470-09	VX014912.D	02/11/2020	13:32

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VY001480.D BFB Injection Date: 02/04/2020

Instrument ID: MSVOA_Y BFB Injection Time: 12:01

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.3 (96.8) 1
177	5.0 - 9.0% of mass 176	4.5 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY001481.D	02/04/2020	12:55
VSTDICC010	VSTDICC010	VY001482.D	02/04/2020	13:16
VSTDICC020	VSTDICC020	VY001483.D	02/04/2020	13:38
VSTDICCC050	VSTDICCC050	VY001484.D	02/04/2020	13:59
VSTDICC100	VSTDICC100	VY001485.D	02/04/2020	14:21
VSTDICC150	VSTDICC150	VY001486.D	02/04/2020	14:42

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VY001549.D BFB Injection Date: 02/07/2020

Instrument ID: MSVOA_Y BFB Injection Time: 12:16

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.3 (7) 1
176	95.0 - 101.0% of mass 174	72.6 (96.2) 1
177	5.0 - 9.0% of mass 176	4.8 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY001550.D	02/07/2020	13:22
VY0207SBL01	VY0207SBL01	VY001551.D	02/07/2020	13:59
VY0207SBS01	VY0207SBS01	VY001554.D	02/07/2020	15:15
VY0207SBSD01	VY0207SBSD01	VY001555.D	02/07/2020	15:40
PE-1-(BASE)	L1470-02	VY001573.D	02/07/2020	22:19
PE-2-(BASE)	L1470-03	VY001574.D	02/07/2020	22:41
PE-3-(SIDE-WALL)-EAST	L1470-04	VY001575.D	02/07/2020	23:03

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VD065124.D Date Analyzed: 02/10/2020

Instrument ID: MSVOA_D Time Analyzed: 10:41

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	522502	7.99	742678	8.87	661005	11.65
UPPER LIMIT	1045000	8.49	1485360	9.37	1322010	12.15
LOWER LIMIT	261251	7.49	371339	8.37	330503	11.15
EPA SAMPLE NO.						
PE-4-(SIDE-WALL)-WEST	524509	7.98	820150	8.87	786990	11.65
PE-5-(SIDE-WALL)-SOUTH	460784	7.99	766272	8.87	792532	11.65
PE-6-(SIDE-WALL)-NORTH	501984	7.98	796781	8.87	758212	11.65
PE-7-(BELOW-PIPE)-NW	500813	7.98	802764	8.87	839216	11.65
PE-6A-(DUPLICATE)	497856	7.98	793643	8.87	768490	11.65
VD0210SBL01	548380	7.98	849448	8.87	880590	11.65
VD0210SBS01	452554	7.98	662243	8.87	602621	11.65

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VD065124.D Date Analyzed: 02/10/2020

Instrument ID: MSVOA_D Time Analyzed: 10:41

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	319884	13.58				
UPPER LIMIT	639768	14.08				
LOWER LIMIT	159942	13.08				
EPA SAMPLE NO.						
PE-4-(SIDE-WALL)-WEST	321270	13.58				
PE-5-(SIDE-WALL)-SOUTH	395478	13.58				
PE-6-(SIDE-WALL)-NORTH	297518	13.58				
PE-7-(BELOW-PIPE)-NW	404491	13.58				
PE-6A-(DUPLICATE)	310605	13.58				
VD0210SBL01	435774	13.58				
VD0210SBS01	288516	13.58				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VX014904.D Date Analyzed: 02/11/2020

Instrument ID: MSVOA_X Time Analyzed: 09:50

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	464414	5.65	673649	6.85	621209	10.11
UPPER LIMIT	928828	6.15	1347300	7.35	1242420	10.61
LOWER LIMIT	232207	5.15	336825	6.35	310605	9.61
EPA SAMPLE NO.						
WS-1-(BASE-WATER)	438789	5.65	688979	6.85	646709	10.11
WS-1A-(DUPLICATE)	454534	5.65	702258	6.86	664183	10.11
VX0211WBL01	446695	5.65	696920	6.85	649658	10.10
VX0211WBS01	462625	5.65	669708	6.85	623682	10.11
VX0211WBSD01	459295	5.65	686407	6.85	635738	10.11

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VX014904.D Date Analyzed: 02/11/2020

Instrument ID: MSVOA_X Time Analyzed: 09:50

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	333151	12.07				
UPPER LIMIT	666302	12.57				
LOWER LIMIT	166576	11.57				
EPA SAMPLE NO.						
WS-1-(BASE-WATER)	345099	12.07				
WS-1A-(DUPLICATE)	347619	12.07				
VX0211WBL01	323128	12.07				
VX0211WBS01	331510	12.07				
VX0211WBSD01	340171	12.07				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VY001550.D Date Analyzed: 02/07/2020

Instrument ID: MSVOA_Y Time Analyzed: 13:22

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	208112	7.81	361254	8.71	324373	11.50
UPPER LIMIT	416224	8.31	722508	9.21	648746	12
LOWER LIMIT	104056	7.31	180627	8.21	162187	11
EPA SAMPLE NO.						
PE-1-(BASE)	167792	7.83	291083	8.72	264195	11.51
PE-2-(BASE)	164943	7.83	295577	8.72	247518	11.51
PE-3-(SIDE-WALL)-EAST	161802	7.83	286158	8.72	258690	11.51
VY0207SBL01	183976	7.81	322974	8.71	289599	11.50
VY0207SBS01	202739	7.81	351178	8.71	313715	11.50
VY0207SBSD01	203712	7.82	354540	8.71	319794	11.50

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: VY001550.D Date Analyzed: 02/07/2020

Instrument ID: MSVOA_Y Time Analyzed: 13:22

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	157351	13.43				
UPPER LIMIT	314702	13.93				
LOWER LIMIT	78675.5	12.93				
EPA SAMPLE NO.						
PE-1-(BASE)	123363	13.44				
PE-2-(BASE)	90182	13.44				
PE-3-(SIDE-WALL)-EAST	118256	13.44				
VY0207SBL01	129133	13.43				
VY0207SBS01	147641	13.43				
VY0207SBSD01	153699	13.44				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VD0210SBL01	SDG No.:	L1470
Lab Sample ID:	VD0210SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065125.D	1		02/10/20 11:19	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0050	U	0.0014	0.0050	mg/Kg
71-43-2	Benzene	0.0050	U	0.00084	0.0050	mg/Kg
108-88-3	Toluene	0.0050	U	0.00098	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.0050	U	0.00085	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.010	U	0.0017	0.010	mg/Kg
95-47-6	o-Xylene	0.0050	U	0.0011	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.0050	U	0.00087	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.0050	U	0.00063	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0050	U	0.00079	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.0050	U	0.00086	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0050	U	0.00092	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.0050	U	0.00076	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.0050	U	0.00079	0.0050	mg/Kg
104-51-8	n-Butylbenzene	0.0050	U	0.00081	0.0050	mg/Kg
91-20-3	Naphthalene	0.0050	U	0.0012	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		56 - 120	105%	SPK: 50
1868-53-7	Dibromofluoromethane	55.2		57 - 135	110%	SPK: 50
2037-26-5	Toluene-d8	54.5		67 - 123	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	65.6		33 - 141	131%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	548000	7.98			
540-36-3	1,4-Difluorobenzene	849000	8.87			
3114-55-4	Chlorobenzene-d5	881000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	436000	13.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VX0211WBL01	SDG No.:	L1470
Lab Sample ID:	VX0211WBL01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014906.D	1		02/11/20 10:55	VX021120

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.070	1.00	ug/L
71-43-2	Benzene	1.00	U	0.10	1.00	ug/L
108-88-3	Toluene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.20	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.13	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.12	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.12	1.00	ug/L
91-20-3	Naphthalene	1.00	U	0.48	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		61 - 141	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		69 - 133	98%	SPK: 50
2037-26-5	Toluene-d8	50.3		65 - 126	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		58 - 135	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	447000	5.65			
540-36-3	1,4-Difluorobenzene	697000	6.85			
3114-55-4	Chlorobenzene-d5	650000	10.1			
3855-82-1	1,4-Dichlorobenzene-d4	323000	12.07			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VY0207SBL01	SDG No.:	L1470
Lab Sample ID:	VY0207SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY001551.D	1		02/07/20 13:59	VY020720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.0050	U	0.0014	0.0050	mg/Kg
71-43-2	Benzene	0.0050	U	0.00084	0.0050	mg/Kg
108-88-3	Toluene	0.0050	U	0.00098	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.0050	U	0.00085	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.010	U	0.0017	0.010	mg/Kg
95-47-6	o-Xylene	0.0050	U	0.0011	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.0050	U	0.00087	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.0050	U	0.00063	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.0050	U	0.00079	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.0050	U	0.00086	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.0050	U	0.00092	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.0050	U	0.00076	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.0050	U	0.00079	0.0050	mg/Kg
104-51-8	n-Butylbenzene	0.0050	U	0.00081	0.0050	mg/Kg
91-20-3	Naphthalene	0.0050	U	0.0012	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		56 - 120	110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		57 - 135	102%	SPK: 50
2037-26-5	Toluene-d8	55.3		67 - 123	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		33 - 141	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	7.81			
540-36-3	1,4-Difluorobenzene	323000	8.71			
3114-55-4	Chlorobenzene-d5	290000	11.5			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.43			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VD0210SBS01	SDG No.:	L1470
Lab Sample ID:	VD0210SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD065126.D	1		02/10/20 11:59	VD021020

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.021		0.0014	0.0050	mg/Kg
71-43-2	Benzene	0.023		0.00084	0.0050	mg/Kg
108-88-3	Toluene	0.023		0.00098	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.022		0.00085	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.045		0.0017	0.010	mg/Kg
95-47-6	o-Xylene	0.021		0.0011	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.022		0.00087	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.022		0.00063	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.022		0.00079	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.021		0.00086	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.022		0.00092	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.022		0.00076	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.022		0.00079	0.0050	mg/Kg
104-51-8	n-Butylbenzene	0.022		0.00081	0.0050	mg/Kg
91-20-3	Naphthalene	0.019		0.0012	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.0		56 - 120	112%	SPK: 50
1868-53-7	Dibromofluoromethane	57.7		57 - 135	115%	SPK: 50
2037-26-5	Toluene-d8	57.1		67 - 123	114%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		33 - 141	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	453000	7.98			
540-36-3	1,4-Difluorobenzene	662000	8.87			
3114-55-4	Chlorobenzene-d5	603000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	289000	13.58			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VX0211WBS01	SDG No.:	L1470
Lab Sample ID:	VX0211WBS01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014907.D	1		02/11/20 11:28	VX021120

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	19.1		0.070	1.00	ug/L
71-43-2	Benzene	19.6		0.10	1.00	ug/L
108-88-3	Toluene	19.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.20	2.00	ug/L
95-47-6	o-Xylene	19.6		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.13	1.00	ug/L
103-65-1	n-propylbenzene	19.5		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.0		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	20.1		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.9		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	19.7		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	19.6		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	18.5		0.12	1.00	ug/L
91-20-3	Naphthalene	19.4		0.48	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.6		61 - 141	95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		69 - 133	97%	SPK: 50
2037-26-5	Toluene-d8	49.5		65 - 126	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		58 - 135	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	463000	5.65			
540-36-3	1,4-Difluorobenzene	670000	6.85			
3114-55-4	Chlorobenzene-d5	624000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	332000	12.07			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VY0207SBS01	SDG No.:	L1470
Lab Sample ID:	VY0207SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY001554.D	1		02/07/20 15:15	VY020720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.020		0.0014	0.0050	mg/Kg
71-43-2	Benzene	0.020		0.00084	0.0050	mg/Kg
108-88-3	Toluene	0.020		0.00098	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.020		0.00085	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.040		0.0017	0.010	mg/Kg
95-47-6	o-Xylene	0.020		0.0011	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.019		0.00087	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.020		0.00063	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.019		0.00079	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.019		0.00086	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.019		0.00092	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.020		0.00076	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.020		0.00079	0.0050	mg/Kg
104-51-8	n-Butylbenzene	0.020		0.00081	0.0050	mg/Kg
91-20-3	Naphthalene	0.019		0.0012	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		56 - 120	105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		57 - 135	98%	SPK: 50
2037-26-5	Toluene-d8	54.3		67 - 123	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		33 - 141	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	7.81			
540-36-3	1,4-Difluorobenzene	351000	8.71			
3114-55-4	Chlorobenzene-d5	314000	11.5			
3855-82-1	1,4-Dichlorobenzene-d4	148000	13.43			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VX0211WBSD01	SDG No.:	L1470
Lab Sample ID:	VX0211WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014910.D	1		02/11/20 12:46	VX021120

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	19.0		0.070	1.00	ug/L
71-43-2	Benzene	18.9		0.10	1.00	ug/L
108-88-3	Toluene	18.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.080	1.00	ug/L
179601-23-1	m/p-Xylenes	37.6		0.20	2.00	ug/L
95-47-6	o-Xylene	18.9		0.13	1.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.13	1.00	ug/L
103-65-1	n-propylbenzene	18.9		0.11	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.4		0.14	1.00	ug/L
98-06-6	tert-Butylbenzene	20.0		0.11	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.5		0.11	1.00	ug/L
135-98-8	sec-Butylbenzene	19.3		0.12	1.00	ug/L
99-87-6	p-Isopropyltoluene	19.0		0.12	1.00	ug/L
104-51-8	n-Butylbenzene	18.7		0.12	1.00	ug/L
91-20-3	Naphthalene	20.0		0.48	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		61 - 141	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		69 - 133	98%	SPK: 50
2037-26-5	Toluene-d8	49.4		65 - 126	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		58 - 135	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	459000	5.65			
540-36-3	1,4-Difluorobenzene	686000	6.85			
3114-55-4	Chlorobenzene-d5	636000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	340000	12.07			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	VY0207SBSD01	SDG No.:	L1470
Lab Sample ID:	VY0207SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	0
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY001555.D	1		02/07/20 15:40	VY020720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.020		0.0014	0.0050	mg/Kg
71-43-2	Benzene	0.020		0.00084	0.0050	mg/Kg
108-88-3	Toluene	0.020		0.00098	0.0050	mg/Kg
100-41-4	Ethyl Benzene	0.020		0.00085	0.0050	mg/Kg
179601-23-1	m/p-Xylenes	0.039		0.0017	0.010	mg/Kg
95-47-6	o-Xylene	0.020		0.0011	0.0050	mg/Kg
98-82-8	Isopropylbenzene	0.019		0.00087	0.0050	mg/Kg
103-65-1	n-propylbenzene	0.019		0.00063	0.0050	mg/Kg
108-67-8	1,3,5-Trimethylbenzene	0.018		0.00079	0.0050	mg/Kg
98-06-6	tert-Butylbenzene	0.019		0.00086	0.0050	mg/Kg
95-63-6	1,2,4-Trimethylbenzene	0.019		0.00092	0.0050	mg/Kg
135-98-8	sec-Butylbenzene	0.019		0.00076	0.0050	mg/Kg
99-87-6	p-Isopropyltoluene	0.019		0.00079	0.0050	mg/Kg
104-51-8	n-Butylbenzene	0.020		0.00081	0.0050	mg/Kg
91-20-3	Naphthalene	0.020		0.0012	0.0050	mg/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		56 - 120	106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		57 - 135	97%	SPK: 50
2037-26-5	Toluene-d8	53.2		67 - 123	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		33 - 141	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	7.82			
540-36-3	1,4-Difluorobenzene	355000	8.71			
3114-55-4	Chlorobenzene-d5	320000	11.5			
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.44			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: MSVOA_D Calibration Date(s): 02/05/2020 02/05/2020

Heated Purge: (Y/N) Y Calibration Time(s): 12:03 15:31

GC Column: RTX-VMS ID: 0.18 (mm)

LAB FILE ID: RRF005 = VD065060.D RRF010 = VD065061.D RRF020 = VD065062.D
RRF050 = VD065063.D RRF100 = VD065064.D RRF150 = VD065065.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	0.965	0.989	1.017	0.964	0.941	0.981	0.976	2.6
Benzene	1.238	1.293	1.321	1.304	1.304	1.242	1.284	2.7
Toluene	0.770	0.819	0.842	0.848	0.839	0.800	0.819	3.7
Ethyl Benzene	1.681	1.777	1.781	1.838	1.814	1.652	1.757	4.2
m/p-Xylenes	0.638	0.671	0.686	0.708	0.687	0.635	0.671	4.3
o-Xylene	0.554	0.610	0.617	0.636	0.622	0.583	0.604	5
Isopropylbenzene	3.205	3.446	3.629	3.590	3.500	3.221	3.432	5.3
n-propylbenzene	3.797	4.051	4.242	4.212	4.084	3.728	4.019	5.3
1,3,5-Trimethylbenzene	2.651	2.862	2.950	2.903	2.818	2.662	2.808	4.5
tert-Butylbenzene	2.265	2.435	2.535	2.478	2.520	2.299	2.422	4.7
1,2,4-Trimethylbenzene	2.655	2.799	2.906	2.884	2.820	2.659	2.787	3.9
sec-Butylbenzene	3.076	3.330	3.487	3.505	3.395	3.055	3.308	6
p-Isopropyltoluene	2.853	3.040	3.212	3.262	3.174	2.902	3.074	5.5
n-Butylbenzene	2.645	2.845	3.008	3.009	2.893	2.624	2.837	6
Naphthalene	1.531	1.592	1.637	1.579	1.565	1.548	1.575	2.4
1,2-Dichloroethane-d4	0.414	0.419	0.411	0.439	0.427	0.439	0.425	2.9
Dibromofluoromethane	0.253	0.268	0.274	0.297	0.296	0.285	0.279	6.2
Toluene-d8	1.048	1.039	1.053	1.194	1.188	1.140	1.110	6.5
4-Bromofluorobenzene	0.332	0.338	0.337	0.377	0.368	0.360	0.352	5.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: MSVOA_X Calibration Date(s): 02/10/2020 02/10/2020

Heated Purge: (Y/N) N Calibration Time(s): 09:54 11:46

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX014876.D RRF005 = VX014877.D RRF020 = VX014878.D
RRF050 = VX014879.D RRF100 = VX014880.D RRF150 = VX014881.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.390	1.428	1.505	1.534	1.549	1.543	1.492	4.5
Benzene	1.251	1.358	1.351	1.357	1.362	1.339	1.336	3.2
Toluene	0.757	0.863	0.863	0.869	0.878	0.863	0.849	5.3
Ethyl Benzene	1.563	1.692	1.736	1.792	1.774	1.792	1.725	5.1
m/p-Xylenes	0.621	0.646	0.655	0.683	0.686	0.695	0.664	4.3
o-Xylene	0.594	0.619	0.626	0.658	0.658	0.678	0.639	4.9
Isopropylbenzene	2.723	3.165	3.241	3.352	3.191	3.142	3.136	6.9
n-propylbenzene	3.218	3.611	3.715	3.835	3.718	3.663	3.627	5.9
1,3,5-Trimethylbenzene	2.141	2.560	2.732	2.803	2.741	2.743	2.620	9.5
tert-Butylbenzene	2.241	2.484	2.507	2.578	2.488	2.588	2.481	5.1
1,2,4-Trimethylbenzene	2.284	2.552	2.722	2.815	2.732	2.737	2.640	7.4
sec-Butylbenzene	2.771	3.023	3.118	3.246	3.181	3.153	3.082	5.5
p-Isopropyltoluene	2.576	2.802	2.885	3.066	2.972	3.004	2.884	6.1
n-Butylbenzene	2.238	2.452	2.591	2.747	2.728	2.742	2.583	7.9
Naphthalene	2.285	2.729	3.132	3.351	3.327	3.307	3.022	14.2
1,2-Dichloroethane-d4		0.607	0.549	0.536	0.563	0.566	0.564	4.7
Dibromofluoromethane		0.321	0.302	0.291	0.314	0.309	0.307	3.8
Toluene-d8		1.205	1.146	1.126	1.202	1.189	1.173	3
4-Bromofluorobenzene		0.412	0.401	0.408	0.440	0.452	0.423	5.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: MSVOA_Y Calibration Date(s): 02/04/2020 02/04/2020

Heated Purge: (Y/N) Y Calibration Time(s): 12:55 14:42

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY001481.D RRF010 = VY001482.D RRF020 = VY001483.D
RRF050 = VY001484.D RRF100 = VY001485.D RRF150 = VY001486.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	1.462	1.394	1.437	1.365	1.369	1.362	1.398	3
Benzene	1.332	1.343	1.363	1.321	1.290	1.178	1.305	5.1
Toluene	0.847	0.855	0.877	0.834	0.816	0.738	0.828	5.9
Ethyl Benzene	1.860	1.869	1.953	1.853	1.767	1.589	1.815	6.9
m/p-Xylenes	0.699	0.714	0.733	0.694	0.659	0.590	0.681	7.5
o-Xylene	0.659	0.663	0.693	0.661	0.625	0.554	0.643	7.5
Isopropylbenzene	3.810	3.939	3.948	3.901	3.856	3.426	3.813	5.2
n-propylbenzene	4.596	4.766	4.730	4.652	4.545	4.102	4.565	5.3
1,3,5-Trimethylbenzene	3.240	3.341	3.379	3.280	3.178	2.851	3.212	5.9
tert-Butylbenzene	2.736	2.832	2.813	2.791	2.704	2.413	2.715	5.7
1,2,4-Trimethylbenzene	3.311	3.329	3.330	3.235	3.098	2.769	3.179	6.9
sec-Butylbenzene	3.879	3.963	3.986	3.938	3.795	3.339	3.817	6.4
p-Isopropyltoluene	3.505	3.532	3.593	3.449	3.247	2.854	3.363	8.2
n-Butylbenzene	3.385	3.441	3.548	3.394	3.251	2.892	3.319	6.9
Naphthalene	2.605	2.279	2.297	2.121	2.121	2.196	2.270	7.9
1,2-Dichloroethane-d4	0.521	0.494	0.485	0.493	0.512	0.517	0.503	2.9
Dibromofluoromethane	0.279	0.307	0.303	0.279	0.285	0.276	0.288	4.6
Toluene-d8	1.131	1.058	1.007	1.128	1.136	1.085	1.091	4.7
4-Bromofluorobenzene	0.424	0.484	0.456	0.413	0.409	0.392	0.430	8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: MSVOA_D Calibration Date/Time: 02/10/2020 10:41

Lab File ID: VD065124.D Init. Calib. Date(s): 02/05/2020 02/05/2020

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:03 15:31

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	0.976	0.886		-9.22	20
Benzene	1.284	1.331		3.66	20
Toluene	0.819	0.851		3.91	20
Ethyl Benzene	1.757	1.810		3.02	20
m/p-Xylenes	0.671	0.695		3.58	20
o-Xylene	0.604	0.614		1.66	20
Isopropylbenzene	3.432	3.531		2.88	20
n-propylbenzene	4.019	4.180		4.01	20
1,3,5-Trimethylbenzene	2.808	2.872		2.28	20
tert-Butylbenzene	2.422	2.422		0	20
1,2,4-Trimethylbenzene	2.787	2.849		2.22	20
sec-Butylbenzene	3.308	3.434		3.81	20
p-Isopropyltoluene	3.074	3.217		4.65	20
n-Butylbenzene	2.837	3.021		6.49	20
Naphthalene	1.575	1.477		-6.22	20
1,2-Dichloroethane-d4	0.425	0.449		5.65	20
Dibromofluoromethane	0.279	0.321		15.05	20
Toluene-d8	1.110	1.287		15.95	20
4-Bromofluorobenzene	0.352	0.392		11.36	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: MSVOA_X Calibration Date/Time: 02/11/2020 09:50

Lab File ID: VX014904.D Init. Calib. Date(s): 02/10/2020 02/10/2020

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:54 11:46

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.492	1.499		0.47	20
Benzene	1.336	1.364		2.1	20
Toluene	0.849	0.874		2.94	20
Ethyl Benzene	1.725	1.820		5.51	20
m/p-Xylenes	0.664	0.700		5.42	20
o-Xylene	0.639	0.671		5.01	20
Isopropylbenzene	3.136	3.374		7.59	20
n-propylbenzene	3.627	3.850		6.15	20
1,3,5-Trimethylbenzene	2.620	2.826		7.86	20
tert-Butylbenzene	2.481	2.704		8.99	20
1,2,4-Trimethylbenzene	2.640	2.858		8.26	20
sec-Butylbenzene	3.082	3.305		7.24	20
p-Isopropyltoluene	2.884	3.083		6.9	20
n-Butylbenzene	2.583	2.687		4.03	20
Naphthalene	3.022	3.270		8.21	20
1,2-Dichloroethane-d4	0.564	0.527		-6.56	20
Dibromofluoromethane	0.307	0.301		-1.95	20
Toluene-d8	1.173	1.146		-2.3	20
4-Bromofluorobenzene	0.423	0.419		-0.95	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: MSVOA_Y Calibration Date/Time: 02/07/2020 13:22

Lab File ID: VY001550.D Init. Calib. Date(s): 02/04/2020 02/04/2020

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:55 14:42

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	1.398	1.338		-4.29	20
Benzene	1.305	1.267		-2.91	20
Toluene	0.828	0.791		-4.47	20
Ethyl Benzene	1.815	1.711		-5.73	20
m/p-Xylenes	0.681	0.638		-6.31	20
o-Xylene	0.643	0.603		-6.22	20
Isopropylbenzene	3.813	3.382		-11.3	20
n-propylbenzene	4.565	4.174		-8.56	20
1,3,5-Trimethylbenzene	3.212	2.829		-11.92	20
tert-Butylbenzene	2.715	2.400		-11.6	20
1,2,4-Trimethylbenzene	3.179	2.817		-11.39	20
sec-Butylbenzene	3.817	3.486		-8.67	20
p-Isopropyltoluene	3.363	3.034		-9.78	20
n-Butylbenzene	3.319	3.103		-6.51	20
Naphthalene	2.270	2.058		-9.34	20
1,2-Dichloroethane-d4	0.503	0.546		8.55	20
Dibromofluoromethane	0.288	0.288		0	20
Toluene-d8	1.091	1.204		10.36	20
4-Bromofluorobenzene	0.430	0.446		3.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	L1470	**OrderDate:**	2/7/2020 12:16:00 PM
Client:	URS Corporation	**Project:**	Rockland Psychiatric Center
Contact:	Balachandra Sudarshan	**Location:**	L41,VOA Ref. #

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
L1470-02	**PE-1-(BASE)**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	
L1470-03	**PE-2-(BASE)**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	
L1470-04	**PE-3-(SIDE-WALL)-EAST**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	
L1470-05	**PE-4-(SIDE-WALL)-WEST**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/11/20	
L1470-06	**PE-5-(SIDE-WALL)-SOUTH**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	
L1470-07	**PE-6-(SIDE-WALL)-NORTH**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	
L1470-08	**PE-7-(BELOW-PIPE)-NW**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	
L1470-09	**WS-1-(BASE-WATER)**	**Water**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/11/20	
L1470-10	**WS-1A-(DUPLICATE)**	**Water**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/11/20	
L1470-11	**PE-6A-(DUPLICATE)**	**SOIL**			**02/06/20**			**02/07/20**
			SVOCMS Group1	8270D		02/10/20	02/10/20	

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Hit Summary Sheet
SW-846

SDG No.: L1470

Client: URS Corporation

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)	SDG No.:	L1470
Lab Sample ID:	L1470-02	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044362.D	1	02/10/20 08:20	02/10/20 18:40	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.37	U	0.067	0.37	mg/Kg
83-32-9	Acenaphthene	0.37	U	0.075	0.37	mg/Kg
86-73-7	Fluorene	0.37	U	0.057	0.37	mg/Kg
85-01-8	Phenanthrene	0.37	U	0.063	0.37	mg/Kg
120-12-7	Anthracene	0.37	U	0.062	0.37	mg/Kg
206-44-0	Fluoranthene	0.37	U	0.055	0.37	mg/Kg
129-00-0	Pyrene	0.37	U	0.068	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	0.37	U	0.042	0.37	mg/Kg
218-01-9	Chrysene	0.37	U	0.047	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.37	U	0.054	0.37	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.37	U	0.063	0.37	mg/Kg
50-32-8	Benzo(a)pyrene	0.37	U	0.049	0.37	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	U	0.080	0.37	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.37	U	0.058	0.37	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.37	U	0.068	0.37	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.0		31 - 132	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.3		39 - 123	70%	SPK: 100
1718-51-0	Terphenyl-d14	64.2		37 - 115	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57900	7.91			
1146-65-2	Naphthalene-d8	245000	10.7			
15067-26-2	Acenaphthene-d10	179000	14.54			
1517-22-2	Phenanthrene-d10	472000	17.28			
1719-03-5	Chrysene-d12	473000	21.53			
1520-96-3	Perylene-d12	484000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)	SDG No.:	L1470
Lab Sample ID:	L1470-02	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044362.D	1	02/10/20 08:20	02/10/20 18:40	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-2-(BASE)	SDG No.:	L1470
Lab Sample ID:	L1470-03	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF118869.D	1	02/10/20 08:20	02/10/20 14:13	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.37	U	0.067	0.37	mg/Kg
83-32-9	Acenaphthene	0.37	U	0.076	0.37	mg/Kg
86-73-7	Fluorene	0.37	U	0.057	0.37	mg/Kg
85-01-8	Phenanthrene	0.13	J	0.064	0.37	mg/Kg
120-12-7	Anthracene	0.37	U	0.062	0.37	mg/Kg
206-44-0	Fluoranthene	0.13	J	0.055	0.37	mg/Kg
129-00-0	Pyrene	0.093	J	0.068	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	0.37	U	0.042	0.37	mg/Kg
218-01-9	Chrysene	0.37	U	0.048	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.076	J	0.054	0.37	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.37	U	0.063	0.37	mg/Kg
50-32-8	Benzo(a)pyrene	0.37	U	0.050	0.37	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	U	0.081	0.37	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.37	U	0.059	0.37	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.37	U	0.068	0.37	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.8		31 - 132	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.9		39 - 123	60%	SPK: 100
1718-51-0	Terphenyl-d14	62.5		37 - 115	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	209000	6.81			
1146-65-2	Naphthalene-d8	792000	8.09			
15067-26-2	Acenaphthene-d10	563000	9.85			
1517-22-2	Phenanthrene-d10	871000	11.33			
1719-03-5	Chrysene-d12	821000	13.97			
1520-96-3	Perylene-d12	722000	15.42			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-2-(BASE)	SDG No.:	L1470
Lab Sample ID:	L1470-03	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF118869.D	1	02/10/20 08:20	02/10/20 14:13	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-3-(SIDE-WALL)-EAST	SDG No.:	L1470
Lab Sample ID:	L1470-04	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	11.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044366.D	1	02/10/20 08:20	02/10/20 21:18	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.37	U	0.067	0.37	mg/Kg
83-32-9	Acenaphthene	0.37	U	0.076	0.37	mg/Kg
86-73-7	Fluorene	0.37	U	0.057	0.37	mg/Kg
85-01-8	Phenanthrene	0.37	U	0.064	0.37	mg/Kg
120-12-7	Anthracene	0.37	U	0.063	0.37	mg/Kg
206-44-0	Fluoranthene	0.37	U	0.056	0.37	mg/Kg
129-00-0	Pyrene	0.37	U	0.069	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	0.37	U	0.042	0.37	mg/Kg
218-01-9	Chrysene	0.37	U	0.048	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.37	U	0.055	0.37	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.37	U	0.063	0.37	mg/Kg
50-32-8	Benzo(a)pyrene	0.37	U	0.050	0.37	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	U	0.081	0.37	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.37	U	0.059	0.37	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.37	U	0.069	0.37	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.3		31 - 132	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.5		39 - 123	88%	SPK: 100
1718-51-0	Terphenyl-d14	81.1		37 - 115	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60200	7.9			
1146-65-2	Naphthalene-d8	261000	10.71			
15067-26-2	Acenaphthene-d10	184000	14.54			
1517-22-2	Phenanthrene-d10	471000	17.29			
1719-03-5	Chrysene-d12	467000	21.53			
1520-96-3	Perylene-d12	486000	24.61			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-3-(SIDE-WALL)-EAST	SDG No.:	L1470
Lab Sample ID:	L1470-04	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	11.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044366.D	1	02/10/20 08:20	02/10/20 21:18	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-4-(SIDE-WALL)-WEST	SDG No.:	L1470
Lab Sample ID:	L1470-05	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	8.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044376.D	1	02/10/20 08:20	02/11/20 05:50	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.36	U	0.065	0.36	mg/Kg
83-32-9	Acenaphthene	0.36	U	0.074	0.36	mg/Kg
86-73-7	Fluorene	0.36	U	0.056	0.36	mg/Kg
85-01-8	Phenanthrene	0.092	J	0.062	0.36	mg/Kg
120-12-7	Anthracene	0.36	U	0.061	0.36	mg/Kg
206-44-0	Fluoranthene	0.36	U	0.054	0.36	mg/Kg
129-00-0	Pyrene	0.36	U	0.066	0.36	mg/Kg
56-55-3	Benzo(a)anthracene	0.36	U	0.041	0.36	mg/Kg
218-01-9	Chrysene	0.36	U	0.046	0.36	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.36	U	0.053	0.36	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.36	U	0.062	0.36	mg/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.048	0.36	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.36	U	0.079	0.36	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.36	U	0.057	0.36	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.36	U	0.067	0.36	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	75.8		31 - 132	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.6		39 - 123	75%	SPK: 100
1718-51-0	Terphenyl-d14	67.3		37 - 115	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68600	7.9			
1146-65-2	Naphthalene-d8	308000	10.71			
15067-26-2	Acenaphthene-d10	219000	14.54			
1517-22-2	Phenanthrene-d10	504000	17.29			
1719-03-5	Chrysene-d12	476000	21.53			
1520-96-3	Perylene-d12	502000	24.61			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-4-(SIDE-WALL)-WEST	SDG No.:	L1470
Lab Sample ID:	L1470-05	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	8.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044376.D	1	02/10/20 08:20	02/11/20 05:50	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-5-(SIDE-WALL)-SOUTH	SDG No.:	L1470
Lab Sample ID:	L1470-06	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	9.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044367.D	1	02/10/20 08:20	02/10/20 21:57	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.36	U	0.066	0.36	mg/Kg
83-32-9	Acenaphthene	0.36	U	0.075	0.36	mg/Kg
86-73-7	Fluorene	0.36	U	0.056	0.36	mg/Kg
85-01-8	Phenanthrene	0.36	U	0.063	0.36	mg/Kg
120-12-7	Anthracene	0.36	U	0.061	0.36	mg/Kg
206-44-0	Fluoranthene	0.36	U	0.054	0.36	mg/Kg
129-00-0	Pyrene	0.36	U	0.067	0.36	mg/Kg
56-55-3	Benzo(a)anthracene	0.36	U	0.041	0.36	mg/Kg
218-01-9	Chrysene	0.36	U	0.047	0.36	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.36	U	0.054	0.36	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.36	U	0.062	0.36	mg/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.049	0.36	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.36	U	0.080	0.36	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.36	U	0.058	0.36	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.36	U	0.067	0.36	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	75.2		31 - 132	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.3		39 - 123	78%	SPK: 100
1718-51-0	Terphenyl-d14	71.2		37 - 115	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60400	7.9			
1146-65-2	Naphthalene-d8	266000	10.7			
15067-26-2	Acenaphthene-d10	191000	14.54			
1517-22-2	Phenanthrene-d10	482000	17.28			
1719-03-5	Chrysene-d12	471000	21.53			
1520-96-3	Perylene-d12	490000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-5-(SIDE-WALL)-SOUTH	SDG No.:	L1470
Lab Sample ID:	L1470-06	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	9.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044367.D	1	02/10/20 08:20	02/10/20 21:57	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-6-(SIDE-WALL)-NORTH	SDG No.:	L1470
Lab Sample ID:	L1470-07	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	9.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF118876.D	1	02/10/20 08:20	02/10/20 18:44	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.13	J	0.066	0.36	mg/Kg
83-32-9	Acenaphthene	0.076	J	0.075	0.36	mg/Kg
86-73-7	Fluorene	0.14	J	0.056	0.36	mg/Kg
85-01-8	Phenanthrene	1.20		0.063	0.36	mg/Kg
120-12-7	Anthracene	0.29	J	0.061	0.36	mg/Kg
206-44-0	Fluoranthene	2.00		0.054	0.36	mg/Kg
129-00-0	Pyrene	1.90		0.067	0.36	mg/Kg
56-55-3	Benzo(a)anthracene	1.20		0.041	0.36	mg/Kg
218-01-9	Chrysene	1.10		0.047	0.36	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.20		0.054	0.36	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.56		0.062	0.36	mg/Kg
50-32-8	Benzo(a)pyrene	1.10		0.049	0.36	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.74		0.080	0.36	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.23	J	0.058	0.36	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.80		0.067	0.36	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	74.0		31 - 132	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.3		39 - 123	76%	SPK: 100
1718-51-0	Terphenyl-d14	73.3		37 - 115	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	246000	6.81			
1146-65-2	Naphthalene-d8	913000	8.09			
15067-26-2	Acenaphthene-d10	529000	9.85			
1517-22-2	Phenanthrene-d10	1050000	11.33			
1719-03-5	Chrysene-d12	800000	13.97			
1520-96-3	Perylene-d12	865000	15.42			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-6-(SIDE-WALL)-NORTH	SDG No.:	L1470
Lab Sample ID:	L1470-07	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	9.4
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF118876.D	1	02/10/20 08:20	02/10/20 18:44	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-7-(BELOW-PIPE)-NW	SDG No.:	L1470
Lab Sample ID:	L1470-08	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	7.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044365.D	1	02/10/20 08:20	02/10/20 20:38	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.36	U	0.065	0.36	mg/Kg
83-32-9	Acenaphthene	0.36	U	0.073	0.36	mg/Kg
86-73-7	Fluorene	0.36	U	0.055	0.36	mg/Kg
85-01-8	Phenanthrene	0.36	U	0.062	0.36	mg/Kg
120-12-7	Anthracene	0.36	U	0.060	0.36	mg/Kg
206-44-0	Fluoranthene	0.36	U	0.054	0.36	mg/Kg
129-00-0	Pyrene	0.36	U	0.066	0.36	mg/Kg
56-55-3	Benzo(a)anthracene	0.36	U	0.041	0.36	mg/Kg
218-01-9	Chrysene	0.36	U	0.046	0.36	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.36	U	0.053	0.36	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.36	U	0.061	0.36	mg/Kg
50-32-8	Benzo(a)pyrene	0.36	U	0.048	0.36	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.36	U	0.078	0.36	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.36	U	0.057	0.36	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.36	U	0.066	0.36	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.7		31 - 132	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.6		39 - 123	76%	SPK: 100
1718-51-0	Terphenyl-d14	70.3		37 - 115	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	61000	7.9			
1146-65-2	Naphthalene-d8	263000	10.71			
15067-26-2	Acenaphthene-d10	194000	14.54			
1517-22-2	Phenanthrene-d10	490000	17.29			
1719-03-5	Chrysene-d12	481000	21.53			
1520-96-3	Perylene-d12	491000	24.61			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-7-(BELOW-PIPE)-NW	SDG No.:	L1470
Lab Sample ID:	L1470-08	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	7.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044365.D	1	02/10/20 08:20	02/10/20 20:38	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	WS-1-(BASE-WATER)	SDG No.:	L1470
Lab Sample ID:	L1470-09	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044382.D	1	02/10/20 08:50	02/11/20 09:46	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	90.4		36 - 131	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.5		39 - 131	94%	SPK: 100
1718-51-0	Terphenyl-d14	79.8		23 - 130	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79900	7.9			
1146-65-2	Naphthalene-d8	323000	10.7			
15067-26-2	Acenaphthene-d10	214000	14.54			
1517-22-2	Phenanthrene-d10	501000	17.28			
1719-03-5	Chrysene-d12	489000	21.53			
1520-96-3	Perylene-d12	503000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	WS-1-(BASE-WATER)	SDG No.:	L1470
Lab Sample ID:	L1470-09	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044382.D	1	02/10/20 08:50	02/11/20 09:46	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	WS-1A-(DUPLICATE)	SDG No.:	L1470
Lab Sample ID:	L1470-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044381.D	1	02/10/20 08:50	02/11/20 09:06	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	90.6		36 - 131	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.9		39 - 131	96%	SPK: 100
1718-51-0	Terphenyl-d14	78.6		23 - 130	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88600	7.9			
1146-65-2	Naphthalene-d8	353000	10.7			
15067-26-2	Acenaphthene-d10	222000	14.54			
1517-22-2	Phenanthrene-d10	493000	17.29			
1719-03-5	Chrysene-d12	478000	21.53			
1520-96-3	Perylene-d12	496000	24.61			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	WS-1A-(DUPLICATE)	SDG No.:	L1470
Lab Sample ID:	L1470-10	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044381.D	1	02/10/20 08:50	02/11/20 09:06	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-6A-(DUPLICATE)	SDG No.:	L1470
Lab Sample ID:	L1470-11	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	9.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF118877.D	1	02/10/20 08:20	02/10/20 19:16	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.11	J	0.066	0.36	mg/Kg
83-32-9	Acenaphthene	0.11	J	0.075	0.36	mg/Kg
86-73-7	Fluorene	0.23	J	0.056	0.36	mg/Kg
85-01-8	Phenanthrene	1.40		0.063	0.36	mg/Kg
120-12-7	Anthracene	0.38		0.062	0.36	mg/Kg
206-44-0	Fluoranthene	1.90		0.055	0.36	mg/Kg
129-00-0	Pyrene	1.80		0.067	0.36	mg/Kg
56-55-3	Benzo(a)anthracene	1.20		0.042	0.36	mg/Kg
218-01-9	Chrysene	0.95		0.047	0.36	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.98		0.054	0.36	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.33	J	0.062	0.36	mg/Kg
50-32-8	Benzo(a)pyrene	1.00		0.049	0.36	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.69		0.080	0.36	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.16	J	0.058	0.36	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.59		0.068	0.36	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	63.9		31 - 132	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.5		39 - 123	70%	SPK: 100
1718-51-0	Terphenyl-d14	74.3		37 - 115	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.81			
1146-65-2	Naphthalene-d8	999000	8.09			
15067-26-2	Acenaphthene-d10	455000	9.85			
1517-22-2	Phenanthrene-d10	898000	11.33			
1719-03-5	Chrysene-d12	629000	13.97			
1520-96-3	Perylene-d12	856000	15.42			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-6A-(DUPLICATE)	SDG No.:	L1470
Lab Sample ID:	L1470-11	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	9.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF118877.D	1	02/10/20 08:20	02/10/20 19:16	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
L1470-02	PE-1-(BASE)	Nitrobenzene-d5	100	66.0	66		31	132
		2-Fluorobiphenyl	100	70.3	70		39	123
		Terphenyl-d14	100	64.2	64		37	115
L1470-02MS	PE-1-(BASE)MS	Nitrobenzene-d5	100	71.1	71		31	132
		2-Fluorobiphenyl	100	72.7	73		39	123
		Terphenyl-d14	100	67.7	68		37	115
L1470-02MSD	PE-1-(BASE)MSD	Nitrobenzene-d5	100	57.3	57		31	132
		2-Fluorobiphenyl	100	58.8	59		39	123
		Terphenyl-d14	100	56.7	57		37	115
L1470-03	PE-2-(BASE)	Nitrobenzene-d5	100	68.8	69		31	132
		2-Fluorobiphenyl	100	59.9	60		39	123
		Terphenyl-d14	100	62.5	62		37	115
L1470-04	PE-3-(SIDE-WALL)-EAST	Nitrobenzene-d5	100	84.3	84		31	132
		2-Fluorobiphenyl	100	88.5	88		39	123
		Terphenyl-d14	100	81.1	81		37	115
L1470-05	PE-4-(SIDE-WALL)-WEST	Nitrobenzene-d5	100	75.8	76		31	132
		2-Fluorobiphenyl	100	74.6	75		39	123
		Terphenyl-d14	100	67.3	67		37	115
L1470-06	PE-5-(SIDE-WALL)-SOUTH	Nitrobenzene-d5	100	75.2	75		31	132
		2-Fluorobiphenyl	100	78.3	78		39	123
		Terphenyl-d14	100	71.2	71		37	115
L1470-07	PE-6-(SIDE-WALL)-NORTH	Nitrobenzene-d5	100	74.0	74		31	132
		2-Fluorobiphenyl	100	76.3	76		39	123
		Terphenyl-d14	100	73.3	73		37	115
L1470-08	PE-7-(BELOW-PIPE)-NW	Nitrobenzene-d5	100	73.7	74		31	132
		2-Fluorobiphenyl	100	75.6	76		39	123
		Terphenyl-d14	100	70.3	70		37	115
L1470-11	PE-6A-(DUPLICATE)	Nitrobenzene-d5	100	63.9	64		31	132
		2-Fluorobiphenyl	100	70.5	70		39	123
		Terphenyl-d14	100	74.3	74		37	115
PB126691BL	PB126691BL	Nitrobenzene-d5	100	86.4	86		31	132
		2-Fluorobiphenyl	100	92.9	93		39	123
		Terphenyl-d14	100	82.6	83		37	115
PB126691BS	PB126691BS	Nitrobenzene-d5	100	80.0	80		31	132
		2-Fluorobiphenyl	100	84.1	84		39	123
		Terphenyl-d14	100	79.4	79		37	115

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Surrogate Summary

SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: 8270D

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
L1470-09	WS-1-(BASE-WATER)	Nitrobenzene-d5	100	90.4	90		36	131
		2-Fluorobiphenyl	100	93.5	94		39	131
		Terphenyl-d14	100	79.8	80		23	130
L1470-10	WS-1A-(DUPLICATE)	Nitrobenzene-d5	100	90.6	91		36	131
		2-Fluorobiphenyl	100	95.9	96		39	131
		Terphenyl-d14	100	78.6	79		23	130
PB126698BL	PB126698BL	Nitrobenzene-d5	100	90.2	90		36	131
		2-Fluorobiphenyl	100	93.4	93		39	131
		Terphenyl-d14	100	82.2	82		23	130
PB126698BS	PB126698BS	Nitrobenzene-d5	100	64.8	65		36	131
		2-Fluorobiphenyl	100	68.1	68		39	131
		Terphenyl-d14	100	64.1	64		23	130
PB126698BSD	PB126698BSD	Nitrobenzene-d5	100	65.2	65		36	131
		2-Fluorobiphenyl	100	67.3	67		39	131
		Terphenyl-d14	100	63.9	64		23	130

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: L1470-02MS		**Client Sample ID: PE-1-(BASE)MS**						**DataFile: BG044363.D**			
Acenaphthylene	1900	0	1900	ug/Kg	100				45	117	
Acenaphthene	1900	0	1800	ug/Kg	95				45	118	
Fluorene	1900	0	1900	ug/Kg	100				41	121	
Phenanthrene	1900	0	1800	ug/Kg	95				29	138	
Anthracene	1900	0	1900	ug/Kg	100				45	120	
Fluoranthene	1900	0	1900	ug/Kg	100				33	133	
Pyrene	1900	0	1700	ug/Kg	89				31	135	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				35	132	
Chrysene	1900	0	1700	ug/Kg	89				34	131	
Benzo(b)fluoranthene	1900	0	1800	ug/Kg	95				35	128	
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95				39	117	
Benzo(a)pyrene	1900	0	1800	ug/Kg	95				35	129	
Indeno(1,2,3-cd)pyrene	1900	0	1700	ug/Kg	89				30	140	
Dibenz(a,h)anthracene	1900	0	1900	ug/Kg	100				18	147	
Benzo(g,h,i)perylene	1900	0	1900	ug/Kg	100				31	132	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: SW8270D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: L1470-02MSD		**Client Sample ID:** PE-1-(BASE)MSD						**DataFile:** BG044364.D			
Acenaphthylene	1900	0	1600	ug/Kg	84		17		45	117	20
Acenaphthene	1900	0	1500	ug/Kg	79		18		45	118	20
Fluorene	1900	0	1600	ug/Kg	84		17		41	121	20
Phenanthrene	1900	0	1500	ug/Kg	79		18		29	138	20
Anthracene	1900	0	1600	ug/Kg	84		17		45	120	20
Fluoranthene	1900	0	1600	ug/Kg	84		17		33	133	20
Pyrene	1900	0	1500	ug/Kg	79		12		31	135	20
Benzo(a)anthracene	1900	0	1400	ug/Kg	74		18		35	132	20
Chrysene	1900	0	1400	ug/Kg	74		18		34	131	20
Benzo(b)fluoranthene	1900	0	1500	ug/Kg	79		18		35	128	20
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79		18		39	117	20
Benzo(a)pyrene	1900	0	1500	ug/Kg	79		18		35	129	20
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74		18		30	140	20
Dibenz(a,h)anthracene	1900	0	1600	ug/Kg	84		17		18	147	20
Benzo(g,h,i)perylene	1900	0	1600	ug/Kg	84		17		31	132	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: 8270D **DataFile:** BG044360.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB126691BS	Acenaphthylene	1700	1500	ug/Kg	88				57	101	
	Acenaphthene	1700	1500	ug/Kg	88				57	102	
	Fluorene	1700	1600	ug/Kg	94				57	101	
	Phenanthrene	1700	1500	ug/Kg	88				58	101	
	Anthracene	1700	1600	ug/Kg	94				57	102	
	Fluoranthene	1700	1600	ug/Kg	94				56	102	
	Pyrene	1700	1400	ug/Kg	82				56	106	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				56	103	
	Chrysene	1700	1400	ug/Kg	82				58	102	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				56	103	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				55	102	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				57	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				50	113	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				52	119	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				56	105	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: 8270D **DataFile:** BG044387.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB126698BS	Acenaphthylene	50	41.5	ug/L	83				65	110	
	Acenaphthene	50	38.8	ug/L	78				66	114	
	Fluorene	50	41.4	ug/L	83				66	112	
	Phenanthrene	50	39.8	ug/L	80				68	112	
	Anthracene	50	41.2	ug/L	82				69	112	
	Fluoranthene	50	42.0	ug/L	84				67	115	
	Pyrene	50	40.0	ug/L	80				67	116	
	Benzo(a)anthracene	50	39.3	ug/L	79				64	117	
	Chrysene	50	38.8	ug/L	78				65	116	
	Benzo(b)fluoranthene	50	40.5	ug/L	81				62	122	
	Benzo(k)fluoranthene	50	41.4	ug/L	83				60	123	
	Benzo(a)pyrene	50	39.8	ug/L	80				65	118	
	Indeno(1,2,3-cd)pyrene	50	38.2	ug/L	76				50	133	
	Dibenz(a,h)anthracene	50	41.3	ug/L	83				45	150	
	Benzo(g,h,i)perylene	50	42.4	ug/L	85				64	123	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: L1470

Client: URS Corporation

Analytical Method: 8270D **DataFile:** BG044388.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB126698BSD	Acenaphthylene	50	40.5	ug/L	81	2			65	110	20
	Acenaphthene	50	38.4	ug/L	77	1			66	114	20
	Fluorene	50	39.5	ug/L	79	5			66	112	20
	Phenanthrene	50	39.5	ug/L	79	1			68	112	20
	Anthracene	50	41.1	ug/L	82	0			69	112	20
	Fluoranthene	50	40.3	ug/L	81	4			67	115	20
	Pyrene	50	40.0	ug/L	80	0			67	116	20
	Benzo(a)anthracene	50	39.4	ug/L	79	0			64	117	20
	Chrysene	50	38.6	ug/L	77	1			65	116	20
	Benzo(b)fluoranthene	50	40.9	ug/L	82	1			62	122	20
	Benzo(k)fluoranthene	50	41.1	ug/L	82	1			60	123	20
	Benzo(a)pyrene	50	39.8	ug/L	80	0			65	118	20
	Indeno(1,2,3-cd)pyrene	50	37.7	ug/L	75	1			50	133	20
	Dibenz(a,h)anthracene	50	41.3	ug/L	83	0			45	150	20
	Benzo(g,h,i)perylene	50	42.1	ug/L	84	1			64	123	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB126691BL

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: BG044361.D Lab Sample ID: PB126691BL

Instrument ID: BNA_G Date Extracted: 02/10/2020

Matrix: (soil/water) SOIL Date Analyzed: 02/10/2020

Level: (low/med) LOW Time Analyzed: 18:01

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PE-7-(BELOW-PIPE)-NW	L1470-08	BG044365.D	02/10/2020
PE-3-(SIDE-WALL)-EAST	L1470-04	BG044366.D	02/10/2020
PE-5-(SIDE-WALL)-SOUTH	L1470-06	BG044367.D	02/10/2020
PE-4-(SIDE-WALL)-WEST	L1470-05	BG044376.D	02/11/2020
PE-2-(BASE)	L1470-03	BF118869.D	02/10/2020
PE-6-(SIDE-WALL)-NORTH	L1470-07	BF118876.D	02/10/2020
PE-6A-(DUPLICATE)	L1470-11	BF118877.D	02/10/2020
PE-1-(BASE)	L1470-02	BG044362.D	02/10/2020
PE-1-(BASE)MS	L1470-02MS	BG044363.D	02/10/2020
PE-1-(BASE)MSD	L1470-02MSD	BG044364.D	02/10/2020
PB126691BS	PB126691BS	BG044360.D	02/10/2020

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB126698BL

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

Lab File ID: BG044389.D Lab Sample ID: PB126698BL

Instrument ID: BNA_G Date Extracted: 02/10/2020

Matrix: (soil/water) Water Date Analyzed: 02/11/2020

Level: (low/med) LOW Time Analyzed: 15:07

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WS-1A-(DUPLICATE)	L1470-10	BG044381.D	02/11/2020
WS-1-(BASE-WATER)	L1470-09	BG044382.D	02/11/2020
PB126698BS	PB126698BS	BG044387.D	02/11/2020
PB126698BSD	PB126698BSD	BG044388.D	02/11/2020

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM SAS No.: L1470 SDG NO.: L1470

Lab File ID: BF118790.D DFTPP Injection Date: 02/03/2020

Instrument ID: BNA_F DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	44.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	80.8
443	15.0 - 24.0% of mass 442	15.6 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC010	SSTDICC010	BF118791.D	02/03/2020	11:22
SSTDICC020	SSTDICC020	BF118792.D	02/03/2020	11:50
SSTDICCC040	SSTDICCC040	BF118793.D	02/03/2020	12:17
SSTDICC050	SSTDICC050	BF118794.D	02/03/2020	12:44
SSTDICC060	SSTDICC060	BF118795.D	02/03/2020	13:12
SSTDICC080	SSTDICC080	BF118796.D	02/03/2020	13:39
SSTDICC100	SSTDICC100	BF118797.D	02/03/2020	14:07

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM SAS No.: L1470 SDG NO.: L1470

Lab File ID: BF118863.D DFTPP Injection Date: 02/10/2020

Instrument ID: BNA_F DFTPP Injection Time: 09:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.5
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	33.6
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	45.3
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12.7
442	Greater than 50% of mass 198	83.6
443	15.0 - 24.0% of mass 442	15.6 (18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF118864.D	02/10/2020	10:14
PE-2-(BASE)	L1470-03	BF118869.D	02/10/2020	14:13
PE-6-(SIDE-WALL)-NORTH	L1470-07	BF118876.D	02/10/2020	18:44
PE-6A-(DUPLICATE)	L1470-11	BF118877.D	02/10/2020	19:16

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM SAS No.: L1470 SDG NO.: L1470

Lab File ID: BG044242.D DFTPP Injection Date: 01/30/2020

Instrument ID: BNA_G DFTPP Injection Time: 09:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.7
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	45.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	74.9
443	15.0 - 24.0% of mass 442	14.4 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC010	SSTDICC010	BG044243.D	01/30/2020	10:37
SSTDICC020	SSTDICC020	BG044244.D	01/30/2020	11:16
SSTDICCC040	SSTDICCC040	BG044245.D	01/30/2020	11:55
SSTDICC050	SSTDICC050	BG044246.D	01/30/2020	12:34
SSTDICC060	SSTDICC060	BG044247.D	01/30/2020	13:14
SSTDICC080	SSTDICC080	BG044248.D	01/30/2020	13:53
SSTDICC100	SSTDICC100	BG044249.D	01/30/2020	14:32

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM SAS No.: L1470 SDG NO.: L1470

Lab File ID: BG044355.D DFTPP Injection Date: 02/10/2020

Instrument ID: BNA_G DFTPP Injection Time: 12:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.1
68	Less than 2.0% of mass 69	0.3 (0.8) 1
69	Mass 69 relative abundance	31.5
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	42.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	82.4
443	15.0 - 24.0% of mass 442	15.4 (18.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG044356.D	02/10/2020	13:20
PB126691BS	PB126691BS	BG044360.D	02/10/2020	17:21
PB126691BL	PB126691BL	BG044361.D	02/10/2020	18:01
PE-1-(BASE)	L1470-02	BG044362.D	02/10/2020	18:40
PE-1-(BASE)MS	L1470-02MS	BG044363.D	02/10/2020	19:19
PE-1-(BASE)MSD	L1470-02MSD	BG044364.D	02/10/2020	19:59
PE-7-(BELOW-PIPE)-NW	L1470-08	BG044365.D	02/10/2020	20:38
PE-3-(SIDE-WALL)-EAST	L1470-04	BG044366.D	02/10/2020	21:18
PE-5-(SIDE-WALL)-SOUTH	L1470-06	BG044367.D	02/10/2020	21:57

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM SAS No.: L1470 SDG NO.: L1470

Lab File ID: BG044368.D DFTPP Injection Date: 02/10/2020

Instrument ID: BNA_G DFTPP Injection Time: 23:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.3
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	12
442	Greater than 50% of mass 198	77.2
443	15.0 - 24.0% of mass 442	15.4 (20) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG044369.D	02/11/2020	00:35
PE-4-(SIDE-WALL)-WEST	L1470-05	BG044376.D	02/11/2020	05:50
WS-1A-(DUPLICATE)	L1470-10	BG044381.D	02/11/2020	09:06
WS-1-(BASE-WATER)	L1470-09	BG044382.D	02/11/2020	09:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM SAS No.: L1470 SDG NO.: L1470

Lab File ID: BG044385.D DFTPP Injection Date: 02/11/2020

Instrument ID: BNA_G DFTPP Injection Time: 12:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.4
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	31.1
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	42
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	12.6
442	Greater than 50% of mass 198	80.1
443	15.0 - 24.0% of mass 442	15.8 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG044386.D	02/11/2020	13:06
PB126698BS	PB126698BS	BG044387.D	02/11/2020	13:45
PB126698BSD	PB126698BSD	BG044388.D	02/11/2020	14:27
PB126698BL	PB126698BL	BG044389.D	02/11/2020	15:07

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/10/2020

Lab File ID: BF118864.D Time Analyzed: 10:14

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	319056	6.82	1184440	8.10	666772	9.86
	UPPER LIMIT	638112	7.32	2368880	8.6	1333540	10.36
	LOWER LIMIT	159528	6.32	592220	7.6	333386	9.36
	EPA SAMPLE NO.						
01	PE-2-(BASE)	208891	6.81	792449	8.09	562706	9.85
02	PE-6-(SIDE-WALL)-NORTH	245971	6.81	913418	8.09	529124	9.85
03	PE-6A-(DUPLICATE)	204965	6.81	999345	8.09	455105	9.85

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/10/2020

Lab File ID: BF118864.D Time Analyzed: 10:14

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1312900	11.34	943384	13.98	982274	15.42
	UPPER LIMIT	2625800	11.84	1886770	14.48	1964550	15.92
	LOWER LIMIT	656450	10.84	471692	13.48	491137	14.92
	EPA SAMPLE NO.						
01	PE-2-(BASE)	871444	11.33	821201	13.97	722328	15.42
02	PE-6-(SIDE-WALL)-NORTH	1052940	11.33	800487	13.97	865254	15.42
03	PE-6A-(DUPLICATE)	897962	11.33	629390	13.97	855811	15.42

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/10/2020

Lab File ID: BG044356.D Time Analyzed: 13:20

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	80132	7.91	364951	10.70	252062	14.54
	UPPER LIMIT	160264	8.41	729902	11.2	504124	15.04
	LOWER LIMIT	40066	7.41	182476	10.2	126031	14.04
	EPA SAMPLE NO.						
01	PB126691BL	57883	7.90	235401	10.71	161824	14.54
02	PE-1-(BASE)	57876	7.91	244785	10.70	179375	14.54
03	PE-1-(BASE)MS	60735	7.90	272720	10.70	191275	14.54
04	PE-1-(BASE)MSD	61746	7.90	271517	10.70	192921	14.54
05	PB126691BS	61544	7.90	270584	10.70	186989	14.55
06	PE-5-(SIDE-WALL)-SOUTH	60365	7.90	266060	10.70	191254	14.54
07	PE-7-(BELOW-PIPE)-NW	60982	7.90	262596	10.71	193582	14.54
08	PE-3-(SIDE-WALL)-EAST	60237	7.90	260504	10.71	183981	14.54

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/10/2020

Lab File ID: BG044356.D Time Analyzed: 13:20

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	555150	17.29	488097	21.54	557151	24.62
	UPPER LIMIT	1110300	17.79	976194	22.04	1114300	25.12
	LOWER LIMIT	277575	16.79	244049	21.04	278576	24.12
	EPA SAMPLE NO.						
01	PB126691BL	431268	17.29	480892	21.53	486117	24.61
02	PE-1-(BASE)	471839	17.28	473181	21.53	484274	24.62
03	PE-1-(BASE)MS	462973	17.29	452724	21.54	490142	24.61
04	PE-1-(BASE)MSD	470078	17.29	459232	21.53	492432	24.62
05	PB126691BS	459625	17.29	457635	21.53	491817	24.62
06	PE-5-(SIDE-WALL)-SOUTH	482169	17.28	471017	21.53	489932	24.62
07	PE-7-(BELOW-PIPE)-NW	489648	17.29	480756	21.53	491139	24.61
08	PE-3-(SIDE-WALL)-EAST	470815	17.29	467120	21.53	485694	24.61

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/11/2020

Lab File ID: BG044369.D Time Analyzed: 00:35

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	88221	7.91	398631	10.70	275344	14.55
	UPPER LIMIT	176442	8.41	797262	11.2	550688	15.05
	LOWER LIMIT	44110.5	7.41	199316	10.2	137672	14.05
	EPA SAMPLE NO.						
01	PE-4-(SIDE-WALL)-WEST	68628	7.90	308258	10.71	219277	14.54
02	WS-1-(BASE-WATER)	79933	7.90	323245	10.70	214492	14.54
03	WS-1A-(DUPLICATE)	88550	7.90	352556	10.70	221707	14.54

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/11/2020

Lab File ID: BG044369.D Time Analyzed: 00:35

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	609909	17.29	522341	21.54	607195	24.62
	UPPER LIMIT	1219820	17.79	1044680	22.04	1214390	25.12
	LOWER LIMIT	304955	16.79	261171	21.04	303598	24.12
	EPA SAMPLE NO.						
01	PE-4-(SIDE-WALL)-WEST	503635	17.29	475743	21.53	501645	24.61
02	WS-1-(BASE-WATER)	501346	17.28	489449	21.53	502805	24.62
03	WS-1A-(DUPLICATE)	492692	17.29	477753	21.53	496146	24.61

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/11/2020

Lab File ID: BG044386.D Time Analyzed: 13:06

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	88774	7.9	365826	10.71	241368	14.54
	UPPER LIMIT	177548	8.4	731652	11.21	482736	15.04
	LOWER LIMIT	44387	7.4	182913	10.21	120684	14.04
	EPA SAMPLE NO.						
01	PB126698BS	80351	7.91	326536	10.70	212556	14.54
02	PB126698BL	83946	7.90	326113	10.71	211241	14.54
03	PB126698BSD	92321	7.90	374510	10.71	243748	14.54

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG NO.: L1470

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/11/2020

Lab File ID: BG044386.D Time Analyzed: 13:06

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	538020	17.29	476586	21.53	547904	24.62
	UPPER LIMIT	1076040	17.79	953172	22.03	1095810	25.12
	LOWER LIMIT	269010	16.79	238293	21.03	273952	24.12
	EPA SAMPLE NO.						
01	PB126698BS	496512	17.29	456186	21.54	496974	24.62
02	PB126698BL	498586	17.29	502708	21.53	518751	24.62
03	PB126698BSD	523280	17.29	461739	21.53	500240	24.62

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126691BL	SDG No.:	L1470
Lab Sample ID:	PB126691BL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044361.D	1	02/10/20 08:20	02/10/20 18:01	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	0.33	U	0.060	0.33	mg/Kg
83-32-9	Acenaphthene	0.33	U	0.068	0.33	mg/Kg
86-73-7	Fluorene	0.33	U	0.051	0.33	mg/Kg
85-01-8	Phenanthrene	0.33	U	0.057	0.33	mg/Kg
120-12-7	Anthracene	0.33	U	0.056	0.33	mg/Kg
206-44-0	Fluoranthene	0.33	U	0.049	0.33	mg/Kg
129-00-0	Pyrene	0.33	U	0.061	0.33	mg/Kg
56-55-3	Benzo(a)anthracene	0.33	U	0.038	0.33	mg/Kg
218-01-9	Chrysene	0.33	U	0.043	0.33	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.33	U	0.049	0.33	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.33	U	0.056	0.33	mg/Kg
50-32-8	Benzo(a)pyrene	0.33	U	0.044	0.33	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.33	U	0.072	0.33	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.33	U	0.052	0.33	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.33	U	0.061	0.33	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.4		31 - 132	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.9		39 - 123	93%	SPK: 100
1718-51-0	Terphenyl-d14	82.6		37 - 115	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57900	7.9			
1146-65-2	Naphthalene-d8	235000	10.71			
15067-26-2	Acenaphthene-d10	162000	14.54			
1517-22-2	Phenanthrene-d10	431000	17.29			
1719-03-5	Chrysene-d12	481000	21.53			
1520-96-3	Perylene-d12	486000	24.61			

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126691BL	SDG No.:	L1470
Lab Sample ID:	PB126691BL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	0
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044361.D	1	02/10/20 08:20	02/10/20 18:01	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126698BL	SDG No.:	L1470
Lab Sample ID:	PB126698BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044389.D	1	02/10/20 08:50	02/11/20 15:07	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	10.0	U	2.70	10.0	ug/L
83-32-9	Acenaphthene	10.0	U	2.80	10.0	ug/L
86-73-7	Fluorene	10.0	U	2.50	10.0	ug/L
85-01-8	Phenanthrene	10.0	U	2.50	10.0	ug/L
120-12-7	Anthracene	10.0	U	2.50	10.0	ug/L
206-44-0	Fluoranthene	10.0	U	2.90	10.0	ug/L
129-00-0	Pyrene	10.0	U	2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	10.0	U	2.30	10.0	ug/L
218-01-9	Chrysene	10.0	U	2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	10.0	U	2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	10.0	U	2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	10.0	U	2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	10.0	U	2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	10.0	U	2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	90.2		36 - 131	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.4		39 - 131	93%	SPK: 100
1718-51-0	Terphenyl-d14	82.2		23 - 130	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	83900	7.9			
1146-65-2	Naphthalene-d8	326000	10.71			
15067-26-2	Acenaphthene-d10	211000	14.54			
1517-22-2	Phenanthrene-d10	499000	17.29			
1719-03-5	Chrysene-d12	503000	21.53			
1520-96-3	Perylene-d12	519000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126698BL	SDG No.:	L1470
Lab Sample ID:	PB126698BL	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044389.D	1	02/10/20 08:50	02/11/20 15:07	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126691BS	SDG No.:	L1470
Lab Sample ID:	PB126691BS	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044360.D	1	02/10/20 08:20	02/10/20 17:21	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	1.50		0.060	0.33	mg/Kg
83-32-9	Acenaphthene	1.50		0.068	0.33	mg/Kg
86-73-7	Fluorene	1.60		0.051	0.33	mg/Kg
85-01-8	Phenanthrene	1.50		0.057	0.33	mg/Kg
120-12-7	Anthracene	1.60		0.056	0.33	mg/Kg
206-44-0	Fluoranthene	1.60		0.049	0.33	mg/Kg
129-00-0	Pyrene	1.40		0.061	0.33	mg/Kg
56-55-3	Benzo(a)anthracene	1.40		0.038	0.33	mg/Kg
218-01-9	Chrysene	1.40		0.043	0.33	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.50		0.049	0.33	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.50		0.056	0.33	mg/Kg
50-32-8	Benzo(a)pyrene	1.50		0.044	0.33	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.40		0.072	0.33	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.50		0.052	0.33	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.60		0.061	0.33	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.0		31 - 132	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.1		39 - 123	84%	SPK: 100
1718-51-0	Terphenyl-d14	79.4		37 - 115	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	61500	7.9			
1146-65-2	Naphthalene-d8	271000	10.7			
15067-26-2	Acenaphthene-d10	187000	14.55			
1517-22-2	Phenanthrene-d10	460000	17.29			
1719-03-5	Chrysene-d12	458000	21.53			
1520-96-3	Perylene-d12	492000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126691BS	SDG No.:	L1470
Lab Sample ID:	PB126691BS	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	0
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044360.D	1	02/10/20 08:20	02/10/20 17:21	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126698BS	SDG No.:	L1470
Lab Sample ID:	PB126698BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044387.D	1	02/10/20 08:50	02/11/20 13:45	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	41.5		2.70	10.0	ug/L
83-32-9	Acenaphthene	38.8		2.80	10.0	ug/L
86-73-7	Fluorene	41.4		2.50	10.0	ug/L
85-01-8	Phenanthrene	39.8		2.50	10.0	ug/L
120-12-7	Anthracene	41.2		2.50	10.0	ug/L
206-44-0	Fluoranthene	42.0		2.90	10.0	ug/L
129-00-0	Pyrene	40.0		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	39.3		2.30	10.0	ug/L
218-01-9	Chrysene	38.8		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.5		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	41.4		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	39.8		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	38.2		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	41.3		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	42.4		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.8		36 - 131	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.1		39 - 131	68%	SPK: 100
1718-51-0	Terphenyl-d14	64.1		23 - 130	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	80400	7.91			
1146-65-2	Naphthalene-d8	327000	10.7			
15067-26-2	Acenaphthene-d10	213000	14.54			
1517-22-2	Phenanthrene-d10	497000	17.29			
1719-03-5	Chrysene-d12	456000	21.54			
1520-96-3	Perylene-d12	497000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126698BS	SDG No.:	L1470
Lab Sample ID:	PB126698BS	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044387.D	1	02/10/20 08:50	02/11/20 13:45	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126698BSD	SDG No.:	L1470
Lab Sample ID:	PB126698BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044388.D	1	02/10/20 08:50	02/11/20 14:27	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	40.5		2.70	10.0	ug/L
83-32-9	Acenaphthene	38.4		2.80	10.0	ug/L
86-73-7	Fluorene	39.5		2.50	10.0	ug/L
85-01-8	Phenanthrene	39.5		2.50	10.0	ug/L
120-12-7	Anthracene	41.1		2.50	10.0	ug/L
206-44-0	Fluoranthene	40.3		2.90	10.0	ug/L
129-00-0	Pyrene	40.0		2.50	10.0	ug/L
56-55-3	Benzo(a)anthracene	39.4		2.30	10.0	ug/L
218-01-9	Chrysene	38.6		2.40	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.9		2.30	10.0	ug/L
207-08-9	Benzo(k)fluoranthene	41.1		2.30	10.0	ug/L
50-32-8	Benzo(a)pyrene	39.8		2.40	10.0	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	37.7		3.30	10.0	ug/L
53-70-3	Dibenzo(a,h)anthracene	41.3		2.60	10.0	ug/L
191-24-2	Benzo(g,h,i)perylene	42.1		2.60	10.0	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	65.2		36 - 131	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.3		39 - 131	67%	SPK: 100
1718-51-0	Terphenyl-d14	63.9		23 - 130	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	92300	7.9			
1146-65-2	Naphthalene-d8	375000	10.71			
15067-26-2	Acenaphthene-d10	244000	14.54			
1517-22-2	Phenanthrene-d10	523000	17.29			
1719-03-5	Chrysene-d12	462000	21.53			
1520-96-3	Perylene-d12	500000	24.62			

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Report of Analysis

Client:	URS Corporation	Date Collected:	
Project:	Rockland Psychiatric Center	Date Received:	
Client Sample ID:	PB126698BSD	SDG No.:	L1470
Lab Sample ID:	PB126698BSD	Matrix:	Water
Analytical Method:	SW8270	% Moisture:	100
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044388.D	1	02/10/20 08:50	02/11/20 14:27	PB126698

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)MS	SDG No.:	L1470
Lab Sample ID:	L1470-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044363.D	1	02/10/20 08:20	02/10/20 19:19	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	1.90		0.067	0.37	mg/Kg
83-32-9	Acenaphthene	1.80		0.076	0.37	mg/Kg
86-73-7	Fluorene	1.90		0.057	0.37	mg/Kg
85-01-8	Phenanthrene	1.80		0.064	0.37	mg/Kg
120-12-7	Anthracene	1.90		0.062	0.37	mg/Kg
206-44-0	Fluoranthene	1.90		0.055	0.37	mg/Kg
129-00-0	Pyrene	1.70		0.068	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	1.70		0.042	0.37	mg/Kg
218-01-9	Chrysene	1.70		0.047	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.80		0.054	0.37	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.80		0.063	0.37	mg/Kg
50-32-8	Benzo(a)pyrene	1.80		0.049	0.37	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.70		0.081	0.37	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.90		0.058	0.37	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.90		0.068	0.37	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.1		31 - 132	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.7		39 - 123	73%	SPK: 100
1718-51-0	Terphenyl-d14	67.7		37 - 115	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60700	7.9			
1146-65-2	Naphthalene-d8	273000	10.7			
15067-26-2	Acenaphthene-d10	191000	14.54			
1517-22-2	Phenanthrene-d10	463000	17.29			
1719-03-5	Chrysene-d12	453000	21.54			
1520-96-3	Perylene-d12	490000	24.61			

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)MS	SDG No.:	L1470
Lab Sample ID:	L1470-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044363.D	1	02/10/20 08:20	02/10/20 19:19	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)MSD	SDG No.:	L1470
Lab Sample ID:	L1470-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044364.D	1	02/10/20 08:20	02/10/20 19:59	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
208-96-8	Acenaphthylene	1.60		0.067	0.37	mg/Kg
83-32-9	Acenaphthene	1.50		0.075	0.37	mg/Kg
86-73-7	Fluorene	1.60		0.057	0.37	mg/Kg
85-01-8	Phenanthrene	1.50		0.064	0.37	mg/Kg
120-12-7	Anthracene	1.60		0.062	0.37	mg/Kg
206-44-0	Fluoranthene	1.60		0.055	0.37	mg/Kg
129-00-0	Pyrene	1.50		0.068	0.37	mg/Kg
56-55-3	Benzo(a)anthracene	1.40		0.042	0.37	mg/Kg
218-01-9	Chrysene	1.40		0.047	0.37	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.50		0.054	0.37	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.50		0.063	0.37	mg/Kg
50-32-8	Benzo(a)pyrene	1.50		0.049	0.37	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.40		0.080	0.37	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.60		0.058	0.37	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.60		0.068	0.37	mg/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	57.3		31 - 132	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.8		39 - 123	59%	SPK: 100
1718-51-0	Terphenyl-d14	56.7		37 - 115	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	61700	7.9			
1146-65-2	Naphthalene-d8	272000	10.7			
15067-26-2	Acenaphthene-d10	193000	14.54			
1517-22-2	Phenanthrene-d10	470000	17.29			
1719-03-5	Chrysene-d12	459000	21.53			
1520-96-3	Perylene-d12	492000	24.62			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	URS Corporation	Date Collected:	02/06/20
Project:	Rockland Psychiatric Center	Date Received:	02/07/20
Client Sample ID:	PE-1-(BASE)MSD	SDG No.:	L1470
Lab Sample ID:	L1470-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	10.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG044364.D	1	02/10/20 08:20	02/10/20 19:59	PB126691

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Dec 03 04:47:00 2018
Response Via : Initial Calibration

Calibration Files
10 =BF118791.D 20 =BF118792.D 40 =BF118793.D 50 =BF118794.D 60 =BF118795.D 80 =BF118796.D 100 =BF118797.D

		Compound	10	20	40	50	60	80	100	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.530	0.521	0.481	0.492	0.477	0.444	0.425	0.482	7.86
3)		Pyridine	1.464	1.400	1.359	1.358	1.331	1.243	1.204	1.337	6.65
4)		n-Nitrosodimet...	0.508	0.511	0.492	0.502	0.483	0.463	0.449	0.487	4.87
5)	S	2-Fluorophenol	1.246	1.201	1.077	1.057	1.029	0.926	0.859	1.057	13.03
6)		Aniline	1.947	1.912	1.741	1.726	1.621	1.490	1.387	1.689	12.22
7)	S	Phenol-d6	1.561	1.486	1.351	1.318	1.262	1.139	1.065	1.312	13.47
8)		2-Chlorophenol	1.365	1.324	1.225	1.196	1.139	1.026	0.962	1.177	12.52
9)		Benzaldehyde	0.985	0.921	0.757	0.667	0.650	0.504		0.748	24.06
10)	C	Phenol	1.730	1.673	1.510	1.463	1.389	1.261	1.182	1.458	13.79
11)		bis(2-Chloroet...	1.278	1.238	1.139	1.134	1.078	1.001	0.941	1.116	10.81
12)		1,3-Dichlorobe...	1.641	1.576	1.442	1.415	1.357	1.224	1.150	1.401	12.58
13)	C	1,4-Dichlorobe...	1.631	1.581	1.445	1.408	1.358	1.217	1.140	1.397	12.77
14)		1,2-Dichlorobe...	1.569	1.499	1.344	1.291	1.222	1.084		1.335	13.38
15)		Benzyl Alcohol	1.168	1.144	1.063	1.031	0.981	0.889	0.821	1.014	12.55
16)		2,2'-oxybis(1-...	1.570	1.538	1.410	1.373	1.322	1.218	1.134	1.366	11.62
17)		2-Methylphenol	1.115	1.073	1.000	0.985	0.948	0.884	0.844	0.978	9.85
18)		Hexachloroethane	0.562	0.552	0.517	0.510	0.493	0.449	0.427	0.501	9.91
19)	P	n-Nitroso-di-n...	0.934	0.905	0.811	0.801	0.757	0.723	0.686	0.802	11.35
20)		3+4-Methylphenols	1.424	1.342	1.180	1.128	1.058			1.226	12.41
21)	I	Naphthalene-d8	----------ISTD----------								
22)		Acetophenone	0.509	0.487	0.436	0.436	0.418	0.389	0.366	0.435	11.61
23)	S	Nitrobenzene-d5	0.369	0.363	0.337	0.338	0.330	0.314	0.298	0.336	7.49
24)		Nitrobenzene	0.367	0.365	0.337	0.339	0.333	0.312	0.293	0.335	7.89
25)		Isophorone	0.655	0.644	0.599	0.605	0.589	0.572	0.558	0.603	5.88
26)	C	2-Nitrophenol	0.179	0.184	0.179	0.186	0.180	0.173	0.170	0.179	3.16
27)		2,4-Dimethylph...	0.259	0.259	0.243	0.247	0.239	0.229	0.222	0.243	5.70
28)		bis(2-Chloroet...	0.437	0.423	0.391	0.396	0.383	0.364	0.343	0.391	8.24
29)	C	2,4-Dichloroph...	0.314	0.311	0.293	0.296	0.289	0.272	0.259	0.291	6.79
30)		1,2,4-Trichlor...	0.380	0.373	0.345	0.342	0.335	0.310	0.293	0.340	9.23
31)		Naphthalene	1.084	1.039	0.923	0.916	0.890	0.803	0.747	0.915	13.05
32)		Benzoic acid	0.166	0.190	0.178	0.224	0.214	0.219	0.215	0.201	11.36
33)		4-Chloroaniline	0.456	0.447	0.409	0.410	0.392	0.384	0.367	0.409	7.91
34)	C	Hexachlorobuta...	0.229	0.228	0.210	0.211	0.207	0.190	0.181	0.208	8.67
35)		Caprolactam	0.100	0.095	0.091	0.094	0.093	0.091	0.096	0.094	3.25
36)	C	4-Chloro-3-met...	0.319	0.314	0.292	0.296	0.287	0.274	0.265	0.292	6.68
37)		2-Methylnaphth...	0.747	0.717	0.643	0.632	0.609	0.561	0.533	0.634	12.19
38)		1-Methylnaphth...	0.693	0.675	0.605	0.600	0.579	0.526	0.500	0.597	11.88

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF020320.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.706	0.676	0.616	0.606	0.589	0.534	0.498	0.604	12.09
41)	P	Hexachlorocycl...	0.174	0.223	0.246	0.257	0.256	0.253	0.247	0.237	12.55
42)	S	2,4,6-Tribromo...	0.268	0.262	0.245	0.242	0.232	0.220	0.206	0.239	9.26
43)	C	2,4,6-Trichlor...	0.429	0.433	0.413	0.412	0.398	0.377	0.362	0.404	6.49
44)		2,4,5-Trichlor...	0.446	0.440	0.419	0.418	0.412	0.382	0.370	0.412	6.79
45)	S	2-Fluorobiphenyl		1.352	1.148	1.102	1.061	0.930		1.119	13.73
46)		1,1'-Biphenyl	1.665	1.589	1.417	1.382	1.339	1.195	1.098	1.383	14.51
47)		2-Chloronaphth...	1.343	1.292	1.169	1.163	1.116	1.014	0.954	1.150	12.07
48)		2-Nitroaniline	0.351	0.346	0.337	0.340	0.325	0.311	0.312	0.332	4.81
49)		Acenaphthylene	1.975	1.876	1.688	1.667	1.622	1.439	1.357	1.661	13.20
50)		Dimethylphthalate	1.552	1.493	1.373	1.350	1.325	1.237	1.203	1.362	9.30
51)		2,6-Dinitrotol...	0.330	0.331	0.315	0.318	0.309	0.294	0.285	0.312	5.49
52)	C	Acenaphthene	1.273	1.204	1.116	1.102	1.067	0.977	0.921	1.094	11.13
53)		3-Nitroaniline	0.370	0.364	0.345	0.356	0.345	0.322	0.317	0.346	5.84
54)	P	2,4-Dinitrophenol	0.109	0.140	0.152	0.164	0.158	0.163	0.163	0.150	13.22
55)		Dibenzofuran	1.876	1.747	1.561	1.524	1.474	1.307		1.581	12.79
56)	P	4-Nitrophenol	0.257	0.254	0.249	0.261	0.250	0.241	0.238	0.250	3.28
57)		2,4-Dinitrotol...	0.439	0.437	0.419	0.422	0.414	0.390	0.365	0.412	6.46
58)		Fluorene	1.444	1.333	1.170	1.127	1.091	0.973		1.190	14.37
59)		2,3,4,6-Tetrac...	0.388	0.389	0.368	0.377	0.357	0.329	0.312	0.360	8.26
60)		Diethylphthalate	1.545	1.468	1.344	1.332	1.291	1.176	1.113	1.324	11.43
61)		4-Chlorophenyl...	0.775	0.722	0.637	0.614	0.596	0.527		0.645	13.91
62)		4-Nitroaniline	0.373	0.360	0.345	0.354	0.340	0.330	0.321	0.346	5.15
63)		Azobenzene	1.312	1.266	1.152	1.128	1.101	1.012	0.943	1.131	11.52
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.099	0.109	0.114	0.120	0.117	0.114	0.114	0.112	5.92
66)	c	n-Nitrosodiphe...	0.678	0.650	0.589	0.584	0.561	0.504	0.489	0.579	11.98
67)		4-Bromophenyl-...	0.268	0.261	0.239	0.238	0.232	0.214	0.204	0.237	9.82
68)		Hexachlorobenzene	0.311	0.300	0.275	0.275	0.264	0.242	0.233	0.271	10.39
69)		Atrazine	0.230	0.218	0.192	0.186	0.178	0.155		0.193	14.16
70)	C	Pentachlorophenol	0.140	0.151	0.149	0.150	0.145	0.137	0.132	0.143	5.06
71)		Phenanthrene	1.170	1.110	0.968	0.949	0.904	0.803		0.984	13.71
72)		Anthracene	1.176	1.094	0.952	0.943	0.906	0.802		0.979	13.73
73)		Carbazole	1.040	0.973	0.873	0.870	0.817	0.749	0.693	0.859	14.07
74)		Di-n-butylphth...	1.290	1.237	1.080	1.050	1.011	0.898		1.094	13.32
75)	C	Fluoranthene	1.295	1.216	1.045	1.042	0.977	0.870		1.074	14.54
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.688	0.670	0.636	0.589	0.562	0.484		0.605	12.55
78)		Pyrene	1.520	1.471	1.373	1.331	1.380	1.277	1.252	1.372	7.09
79)	S	Terphenyl-d14	1.199	1.116	0.981	0.917	0.944	0.841	0.819	0.974	14.34
80)		Butylbenzylpht...	0.636	0.644	0.638	0.618	0.634	0.616	0.597	0.626	2.61
81)		Benzo(a)anthra...	1.404	1.329	1.183	1.188	1.156	1.050	1.021	1.190	11.63
82)		3,3'-Dichlorob...	0.556	0.554	0.504	0.495	0.475	0.424	0.399	0.487	12.26
83)		Chrysene	1.375	1.331	1.219	1.175	1.160	1.085	1.016	1.194	10.65
84)		Bis(2-ethylhex...	0.883	0.884	0.824	0.769	0.775	0.731	0.695	0.795	9.15
85)	c	Di-n-octyl pht...	1.514	1.523	1.415	1.336	1.311	1.241	1.187	1.361	9.51
86)		Indeno(1,2,3-c...	1.443	1.372	1.131	1.177	1.122	1.071	1.085	1.200	12.25

Method Path : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\
Method File : 8270-BF020320.M

87)	I	Perylene-d12	----------ISTD----------							
88)		Benzo(b)fluora...	1.285	1.296	1.275	1.219	1.212	1.179	1.221	1.241	3.57
89)		Benzo(k)fluora...	1.260	1.175	1.074	1.118	1.104	0.972	0.862	1.081	12.09
90)	C	Benzo(a)pyrene	1.165	1.133	1.061	1.078	1.052	0.993	0.954	1.062	6.92
91)		Dibenzo(a,h)an...	1.077	1.031	0.915	0.911	0.926	0.875	0.864	0.943	8.52
92)		Benzo(g,h,i)pe...	1.013	0.966	0.861	0.860	0.907	0.852	0.888	0.907	6.74

(#) = Out of Range

Response Factor Report GC/MS Ins

Method Path : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\
Method File : 8270-BG013020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 30 16:05:09 2020
Response Via : Initial Calibration

Calibration Files
10 =BG044243.D 20 =BG044244.D 40 =BG044245.D 50 =BG044246.D 60 =BG044247.D 80 =BG044248.D 100 =BG044249.D

		Compound	10	20	40	50	60	80	100	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.566	0.535	0.527	0.517	0.492	0.470	0.457	0.509	7.54
3)		Pyridine	1.544	1.547	1.527	1.321	1.249	1.166	1.141	1.357	13.33
4)		n-Nitrosodimet...	0.610	0.592	0.575	0.577	0.553	0.546	0.515	0.567	5.59
5)	S	2-Fluorophenol	1.237	1.235	1.172	1.149	1.101	1.063	0.976	1.133	8.35
6)		Aniline	2.015	1.990	1.975	1.907	1.848	1.822	1.666	1.889	6.47
7)	S	Phenol-d6	1.659	1.645	1.576	1.551	1.476	1.435	1.310	1.522	8.14
8)		2-Chlorophenol	1.367	1.340	1.297	1.252	1.209	1.170	1.084	1.245	7.99
9)		Benzaldehyde	0.994	0.966	0.852	0.797	0.725			0.867	13.07
10)	C	Phenol	1.619	1.610	1.566	1.535	1.473	1.416	1.322	1.506	7.23
11)		bis(2-Chloroet...	1.423	1.381	1.328	1.298	1.240	1.222	1.121	1.288	7.96
12)		1,3-Dichlorobe...	1.656	1.613	1.516	1.502	1.446	1.389	1.287	1.487	8.53
13)	C	1,4-Dichlorobe...	1.635	1.593	1.520	1.479	1.416	1.382	1.284	1.473	8.33
14)		1,2-Dichlorobe...	1.545	1.519	1.442	1.402	1.337	1.303	1.198	1.392	8.84
15)		Benzyl Alcohol	1.077	1.107	1.128	1.108	1.073	1.071	0.979	1.077	4.49
16)		2,2'-oxybis(1-...	1.894	1.827	1.807	1.764	1.688	1.671	1.549	1.743	6.64
17)		2-Methylphenol	1.142	1.126	1.112	1.101	1.053	1.029	0.958	1.075	6.05
18)		Hexachloroethane	0.602	0.594	0.562	0.558	0.538	0.523	0.492	0.553	7.00
19)	P	n-Nitroso-di-n...	1.092	1.077	1.053	1.030	0.983	0.975	0.889	1.014	6.96
20)		3+4-Methylphenols	1.544	1.543	1.555	1.508	1.463	1.435	1.318	1.481	5.72
21)	I	Naphthalene-d8	----------ISTD----------								
22)		Acetophenone	0.521	0.513	0.486	0.500	0.480	0.460	0.445	0.487	5.66
23)	S	Nitrobenzene-d5	0.371	0.372	0.355	0.364	0.352	0.338	0.328	0.354	4.73
24)		Nitrobenzene	0.362	0.358	0.342	0.358	0.344	0.332	0.324	0.346	4.16
25)		Isophorone	0.685	0.679	0.658	0.673	0.657	0.640	0.630	0.660	3.10
26)	C	2-Nitrophenol	0.161	0.173	0.182	0.190	0.189	0.183	0.179	0.179	5.49
27)		2,4-Dimethylph...	0.256	0.253	0.255	0.262	0.256	0.248	0.243	0.253	2.42
28)		bis(2-Chloroet...	0.465	0.457	0.443	0.452	0.436	0.419	0.411	0.440	4.49
29)	C	2,4-Dichloroph...	0.303	0.309	0.307	0.316	0.311	0.302	0.296	0.306	2.12
30)		1,2,4-Trichlor...	0.370	0.360	0.349	0.360	0.353	0.335	0.331	0.351	3.98
31)		Naphthalene	1.073	1.026	0.967	0.989	0.949	0.910	0.877	0.970	6.91
32)		Benzoic acid	0.020	0.050	0.133	0.161	0.178	0.194	0.209	0.135	54.10
33)		4-Chloroaniline	0.452	0.450	0.439	0.451	0.440	0.431	0.427	0.441	2.32
34)	C	Hexachlorobuta...	0.229	0.219	0.217	0.222	0.218	0.206	0.203	0.216	4.19
35)		Caprolactam	0.106	0.107	0.111	0.116	0.111	0.116	0.117	0.112	3.96
36)	C	4-Chloro-3-met...	0.329	0.320	0.317	0.330	0.321	0.315	0.315	0.321	1.94
37)		2-Methylnaphth...	0.785	0.759	0.716	0.733	0.708	0.681	0.661	0.720	5.94
38)		1-Methylnaphth...	0.740	0.709	0.678	0.688	0.669	0.645	0.626	0.679	5.66

Method Path : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\
Method File : 8270-BG013020.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.635	0.628	0.603	0.611	0.598	0.565	0.548	0.598	5.32
41)	P	Hexachlorocycl...	0.240	0.263	0.298	0.310	0.313	0.294	0.292	0.287	9.23
42)	S	2,4,6-Tribromo...	0.226	0.233	0.231	0.244	0.239	0.238	0.233	0.235	2.54
43)	C	2,4,6-Trichlor...	0.373	0.384	0.391	0.401	0.398	0.383	0.378	0.387	2.71
44)		2,4,5-Trichlor...	0.366	0.382	0.400	0.417	0.411	0.397	0.391	0.395	4.38
45)	S	2-Fluorobiphenyl	1.424	1.356	1.207	1.204	1.143	1.051	0.975	1.194	13.28
46)		1,1'-Biphenyl	1.627	1.548	1.442	1.478	1.414	1.328	1.261	1.443	8.64
47)		2-Chloronaphth...	1.268	1.230	1.139	1.170	1.131	1.075	1.024	1.148	7.35
48)		2-Nitroaniline	0.324	0.343	0.335	0.354	0.340	0.341	0.334	0.339	2.70
49)		Acenaphthylene	1.880	1.817	1.683	1.718	1.649	1.559	1.481	1.684	8.23
50)		Dimethylphthalate	1.618	1.531	1.424	1.463	1.392	1.350	1.286	1.438	7.78
51)		2,6-Dinitrotol...	0.337	0.325	0.314	0.327	0.319	0.315	0.308	0.321	2.96
52)	C	Acenaphthene	1.182	1.162	1.078	1.116	1.072	1.037	0.992	1.091	6.18
53)		3-Nitroaniline	0.344	0.360	0.351	0.370	0.358	0.352	0.349	0.355	2.40
54)	P	2,4-Dinitrophenol	0.084	0.120	0.164	0.179	0.182	0.190	0.195	0.159	26.13
55)		Dibenzofuran	1.904	1.799	1.645	1.671	1.593	1.523	1.432	1.652	9.69
56)	P	4-Nitrophenol	0.205	0.245	0.262	0.280	0.270	0.279	0.278	0.260	10.53
57)		2,4-Dinitrotol...	0.447	0.456	0.439	0.466	0.447	0.449	0.442	0.449	2.02
58)		Fluorene	1.479	1.411	1.286	1.319	1.259	1.208	1.148	1.301	8.77
59)		2,3,4,6-Tetrac...	0.350	0.341	0.355	0.370	0.364	0.364	0.354	0.357	2.75
60)		Diethylphthalate	1.589	1.531	1.411	1.463	1.382	1.354	1.297	1.433	7.13
61)		4-Chlorophenyl...	0.770	0.745	0.699	0.716	0.692	0.672	0.647	0.706	5.98
62)		4-Nitroaniline	0.351	0.359	0.343	0.365	0.353	0.356	0.353	0.354	1.96
63)		Azobenzene	1.381	1.337	1.243	1.276	1.224	1.187	1.139	1.256	6.67
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.088	0.103	0.113	0.118	0.118	0.116	0.117	0.110	9.99
66)	c	n-Nitrosodiphe...	0.608	0.599	0.567	0.573	0.557	0.524	0.496	0.560	7.05
67)		4-Bromophenyl-...	0.225	0.224	0.220	0.224	0.220	0.210	0.202	0.218	3.94
68)		Hexachlorobenzene	0.262	0.250	0.245	0.251	0.244	0.231	0.226	0.244	5.08
69)		Atrazine	0.210	0.213	0.198	0.201	0.190	0.172	0.161	0.192	10.01
70)	C	Pentachlorophenol	0.076	0.100	0.121	0.125	0.127	0.120	0.124	0.113	16.77
71)		Phenanthrene	1.109	1.076	0.976	0.986	0.940	0.872	0.820	0.968	10.67
72)		Anthracene	1.085	1.064	0.963	0.983	0.929	0.869	0.808	0.957	10.38
73)		Carbazole	0.970	0.980	0.892	0.909	0.857	0.805	0.766	0.883	9.00
74)		Di-n-butylphth...	1.220	1.228	1.125	1.134	1.054	0.970	0.904	1.091	11.20
75)	C	Fluoranthene	1.282	1.260	1.141	1.148	1.073	1.004	0.934	1.120	11.37
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.533	0.617	0.630	0.599	0.560	0.463	0.482	0.555	11.78
78)		Pyrene	1.520	1.419	1.309	1.305	1.247	1.146	1.044	1.284	12.43
79)	S	Terphenyl-d14	1.148	1.063	0.922	0.900	0.828			0.972	13.39
80)		Butylbenzylpht...	0.603	0.604	0.601	0.617	0.590	0.556	0.528	0.585	5.46
81)		Benzo(a)anthra...	1.390	1.332	1.250	1.257	1.207	1.133	1.059	1.233	9.15
82)		3,3'-Dichlorob...	0.492	0.499	0.501	0.503	0.477	0.449	0.429	0.478	6.06
83)		Chrysene	1.357	1.296	1.214	1.213	1.163	1.084	1.013	1.191	9.91
84)		Bis(2-ethylhex...	0.894	0.886	0.825	0.828	0.786	0.735	0.686	0.806	9.45
85)	c	Di-n-octyl pht...	1.509	1.494	1.436	1.453	1.362	1.304	1.199	1.394	8.05
86)		Indeno(1,2,3-c...	1.573	1.591	1.547	1.595	1.527	1.538	1.509	1.554	2.11

Method Path : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\
Method File : 8270-BG013020.M

87)	I	Perylene-d12	----------ISTD----------							
88)		Benzo(b)fluora...	1.219	1.228	1.155	1.190	1.161	1.076	1.038	1.152	6.20
89)		Benzo(k)fluora...	1.245	1.212	1.145	1.141	1.100	1.052	0.967	1.123	8.41
90)	C	Benzo(a)pyrene	1.138	1.150	1.103	1.127	1.090	1.035	0.985	1.090	5.47
91)		Dibenzo(a,h)an...	1.107	1.135	1.076	1.110	1.074	1.037	1.010	1.078	4.05
92)		Benzo(g,h,i)pe...	1.110	1.124	1.076	1.113	1.072	1.040	1.022	1.080	3.58

(#) = Out of Range

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: BNA_F Calibration Date/Time: 02/10/2020 10:14

Lab File ID: BF118864.D Init. Calib. Date(s): 02/03/2020 02/03/2020

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:22 14:07

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.057	1.112		5.2	
Phenol-d6	1.312	1.408		7.3	
Nitrobenzene-d5	0.336	0.361		7.4	
2-Fluorobiphenyl	1.119	1.183		5.7	
Acenaphthylene	1.661	1.807		8.8	
Acenaphthene	1.094	1.095		0.1	20.0
Fluorene	1.190	1.231		3.4	
2,4,6-Tribromophenol	0.239	0.249		4.2	
Phenanthrene	0.984	0.983		-0.1	
Anthracene	0.979	0.997		1.8	
Fluoranthene	1.074	1.091		1.6	20.0
Pyrene	1.372	1.518		10.6	
Terphenyl-d14	0.974	1.036		6.4	
Benzo(a)anthracene	1.190	1.290		8.4	
Chrysene	1.194	1.258		5.4	
Benzo(b)fluoranthene	1.241	1.346		8.5	
Benzo(k)fluoranthene	1.081	1.122		3.8	
Benzo(a)pyrene	1.062	1.131		6.5	20.0
Indeno(1,2,3-cd)pyrene	1.200	1.201		0.1	
Dibenzo(a,h)anthracene	0.943	0.942		-0.1	
Benzo(g,h,i)perylene	0.907	0.895		-1.3	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: BNA_G Calibration Date/Time: 02/10/2020 13:20

Lab File ID: BG044356.D Init. Calib. Date(s): 01/30/2020 01/30/2020

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:37 14:32

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.133	1.157		2.1	
Phenol-d6	1.522	1.649		8.3	
Nitrobenzene-d5	0.354	0.351		-0.8	
2-Fluorobiphenyl	1.194	1.188		-0.5	
Acenaphthylene	1.684	1.688		0.2	
Acenaphthene	1.091	1.091		0.0	20.0
Fluorene	1.301	1.333		2.5	
2,4,6-Tribromophenol	0.235	0.245		4.3	
Phenanthrene	0.968	0.988		2.1	
Anthracene	0.957	0.985		2.9	
Fluoranthene	1.120	1.151		2.8	20.0
Pyrene	1.284	1.312		2.2	
Terphenyl-d14	0.972	0.958		-1.4	
Benzo(a)anthracene	1.233	1.255		1.8	
Chrysene	1.191	1.211		1.7	
Benzo(b)fluoranthene	1.152	1.161		0.8	
Benzo(k)fluoranthene	1.123	1.164		3.7	
Benzo(a)pyrene	1.090	1.119		2.7	20.0
Indeno(1,2,3-cd)pyrene	1.554	1.549		-0.3	
Dibenzo(a,h)anthracene	1.078	1.094		1.5	
Benzo(g,h,i)perylene	1.080	1.095		1.4	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: BNA_G Calibration Date/Time: 02/11/2020 00:35

Lab File ID: BG044369.D Init. Calib. Date(s): 01/30/2020 01/30/2020

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:37 14:32

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.133	1.154		1.9	
Phenol-d6	1.522	1.643		7.9	
Nitrobenzene-d5	0.354	0.350		-1.1	
2-Fluorobiphenyl	1.194	1.176		-1.5	
Acenaphthylene	1.684	1.692		0.5	
Acenaphthene	1.091	1.094		0.3	20.0
Fluorene	1.301	1.330		2.2	
2,4,6-Tribromophenol	0.235	0.248		5.5	
Phenanthrene	0.968	0.968		0.0	
Anthracene	0.957	0.960		0.3	
Fluoranthene	1.120	1.117		-0.3	20.0
Pyrene	1.284	1.296		0.9	
Terphenyl-d14	0.972	0.905		-6.9	
Benzo(a)anthracene	1.233	1.257		1.9	
Chrysene	1.191	1.212		1.8	
Benzo(b)fluoranthene	1.152	1.159		0.6	
Benzo(k)fluoranthene	1.123	1.128		0.4	
Benzo(a)pyrene	1.090	1.103		1.2	20.0
Indeno(1,2,3-cd)pyrene	1.554	1.568		0.9	
Dibenzo(a,h)anthracene	1.078	1.091		1.2	
Benzo(g,h,i)perylene	1.080	1.096		1.5	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: URSC05

Lab Code: CHEM Case No.: L1470 SAS No.: L1470 SDG No.: L1470

Instrument ID: BNA_G Calibration Date/Time: 02/11/2020 13:06

Lab File ID: BG044386.D Init. Calib. Date(s): 01/30/2020 01/30/2020

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:37 14:32

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.133	1.207		6.5	
Phenol-d6	1.522	1.580		3.8	
Nitrobenzene-d5	0.354	0.352		-0.6	
2-Fluorobiphenyl	1.194	1.199		0.4	
Acenaphthylene	1.684	1.705		1.2	
Acenaphthene	1.091	1.094		0.3	20.0
Fluorene	1.301	1.334		2.5	
2,4,6-Tribromophenol	0.235	0.247		5.1	
Phenanthrene	0.968	0.985		1.8	
Anthracene	0.957	0.983		2.7	
Fluoranthene	1.120	1.162		3.8	20.0
Pyrene	1.284	1.317		2.6	
Terphenyl-d14	0.972	0.924		-4.9	
Benzo(a)anthracene	1.233	1.261		2.3	
Chrysene	1.191	1.218		2.3	
Benzo(b)fluoranthene	1.152	1.177		2.2	
Benzo(k)fluoranthene	1.123	1.148		2.2	
Benzo(a)pyrene	1.090	1.118		2.6	20.0
Indeno(1,2,3-cd)pyrene	1.554	1.567		0.8	
Dibenzo(a,h)anthracene	1.078	1.107		2.7	
Benzo(g,h,i)perylene	1.080	1.096		1.5	

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number: L1470
COC Number: 2024142

CLIENT INFORMATION
Report to be sent to: Chandra
COMPANY: URS | AECOM
ADDRESS: 1255 Broad Street
CITY: Clifton STATE: NJ ZIP: 07013
ATTENTION: Balachandra Sudarshan
PHONE: 862-485-8220 FAX:

PROJECT INFORMATION
PROJECT NAME: Rockland Psych Center
PROJECT #: 60495438.1T LOCATION: Rockland, NY
PROJECT MANAGER: Chandra Sudarshan
E-MAIL: Balachandra.Sudarshan@aecom.com
PHONE: 862-485-8220 FAX:

BILLING INFORMATION
BILL TO: URS | AECOM A/P PO# 60495438.1T
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: A/P
PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) STD DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
☐ Level 1 (Results Only)
☐ Level 2 (Results + QC)
☐ Level 3 (Results + QC + Raw Data)
☐ EDD FORMAT
☐ Level 4 (QC + Full Raw Data)
☐ NJ Reduced ☐ US EPA CLP
☐ NYS ASP A ☐ NYS ASP B
☐ Other Full package NYSDEC

ANALYSIS
1 VOCs CP-52
2 SVOCs CP52
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TB-2/6/2020	Water		✓	2/6/20	1200	2	X									
2.	PE-1 (Base)	Soil		✓	2/6/20	1115	2	X	X								
3.	PE-2 (Base)	Soil		✓	2/6/20	1130	2	X	X								
4.	PE-3 (Sidewall)-east	Soil		✓	2/6/20	1150	2	X	X								
5.	PE-4 (Sidewall) - west	Soil		✓	2/6/20	1200	2	X	X								
6.	PE-5 (Sidewall) South	Soil		✓	2/6/20	1235	2	X	X								
7.	PE-6 (Sidewall) North	Soil		✓	2/6/20	1330	2	X	X								
8.	PE-7 (Below Pipe) N.W.	Soil		✓	2/6/20	1400	2	X	X								
9.	WS-1 (Base-water)	Water		✓	2/6/20	1140	3	X	X								
10.	WS-1A (Duplicate)	Water		✓	2/6/20	1140	3	X	X								

PRESERVATIVES: <—Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	
1.	Bala Sudarshan	2/7/2020 9:15		2/7/20 9:35
2.		2/7/20 1:45		
3.			RECEIVED FOR LAB BY	

Conditions of bottles or coilers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.2
Comments: Please analyze for VOCs & SVOCs as per NYSDEC - CP52 list.

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other:
CHEMTECH: ☒ Picked Up

Shipment Complete
☒ YES ☐ NO

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number: L1470
COC Number: 2024142

CLIENT INFORMATION

Report to be sent to:
COMPANY: URS/AECOM
ADDRESS: 125 Broad Street,
CITY: Clifton STATE: NJ ZIP: 07013
ATTENTION: Chandru Sutershan
PHONE: 862-485-8220 FAX:

PROJECT INFORMATION

PROJECT NAME: Rockland Psych Center
PROJECT #: 60495438.1T LOCATION: Rockland
PROJECT MANAGER: Balachandru Sutershan
E-MAIL: Balachandru.SutershanCaecom.com
PHONE: 862-485-8220 FAX:

BILLING INFORMATION

BILL TO: URS/AECOM PO# 60495438.1T
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: A/P
PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only)
☐ Level 2 (Results + QC)
☐ Level 3 (Results + QC + Raw Data)
☐ EDD FORMAT _____
☐ Level 4 (QC + Full Raw Data)
☐ NJ Reduced ☐ US EPA CLP
☐ NYS ASP A ☐ NYS ASP B
☑ Other Full Package NYSDEC

ANALYSIS

1 VOC 8260
2 SVOC 8270
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	PE-6A (Duplicate)	Soil		✓	2/6/20	1330	2	X	X								
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

<- Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	2/7/20 9:A	1. 2/7/20 8:75
RELINQUISHED BY 2. 2/7/20 1:45	DATE/TIME	RECEIVED BY 2. SB
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.

Conditions of bottles or coilers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.2
Comments:

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other:
CHEMTECH: ☒ Picked Up

Shipment Complete ☒ YES ☐ NO

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>
Sent: Monday, February 10, 2020 9:15 AM
To: S.Chaim@chemtech.net; Samantha@chemtech.net
Subject: Re: Rockland Psych Center - L1470

Ok

Balachandra Sudarshan
AECOM/URS
Senior Project Manager/IH
Consultant, NYSOMH
Downstate PM
1255 Broad
Mobile: 862-485-8220
Balachandra.sudarshan@aecom.com

From: Steven Chaimowitz <S.Chaim@chemtech.net>
Sent: Monday, February 10, 2020 8:50:11 AM
To: Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>; Samantha@chemtech.net <Samantha@chemtech.net>
Subject: RE: Rockland Psych Center - L1470

Good Morning,
The plastic bottle in the cooler labeled TB is a temperature blank. In your bottle order there were two 40ml vials preserved with HCl. These two vials are the trip blanks. We will proceed with analysis of the samples received as Samantha had mentioned. Thank you.

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

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From: Sudarshan, Balachandra [mailto:balachandra.sudarshan@aecom.com]
Sent: Friday, February 7, 2020 7:05 PM
To: Samantha@chemtech.net
Cc: 'Steven Chaimowitz' <s.chaim@chemtech.net>
Subject: RE: Rockland Psych Center - L1470

Hello Steve\Samantha: There was plastic bottle With TB listed on it, Was that not the trip blank?

Balachandra Sudarshan
Senior Project Manager\IH- Downstate PM,
Environmental Compliance Department
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From: Samantha Beazley <Samantha@chemtech.net>
Sent: Friday, February 7, 2020 3:06 PM
To: Sudarshan, Balachandra <balachandra.sudarshan@aecom.com>
Cc: 'Steven Chaimowitz' <s.chaim@chemtech.net>
Subject: Rockland Psych Center - L1470

Good afternoon,

Please see the attached COC. We picked up these samples today and upon processing the samples there was no trip blank found in the cooler. We are going to proceed with analysis of the other samples. Thank you

Respectfully,

Samantha Beazley
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3148
samantha@chemtech.net | www.chemtech.net

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5