TA21

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NMED Hazardous Waste Bureau

Environmental Protection Division
Water Quality & RCRA (ENV-RCRA)
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
(505) 667-0666/FAX: (505) 667-5224

Date: September 19, 2007
Refer To: ENV-RCRA: 07-227

Mr. James Bearzi
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Dear Mr. Bearzi:

SUBJECT: REQUEST FOR "CONTAINED" IN DETERMINATION FOR ENVIRONMENTAL MEDIA AND DEBRIS AT SWMU 21-027(c) FROM THE TA-21 DELTA PRIME SITE AGGREGATE AREA REMEDIATION PROJECT

The purpose of this letter is to request that the New Mexico Environment Department (NMED) Hazardous Waste Bureau use its authority under 20.4.1.200 NMAC 261.3(f) to determine that environmental media and associated debris at the Los Alamos National Laboratory (LANL) Technical Area (TA)-21, Delta Prime Site Aggregate Area (DPSAA) do not warrant management as F-listed hazardous waste, pursuant to the requirements of 20.4.1.200 NMAC 261.31. The waste was generated as part of corrective actions for SWMU 21-027(c) and consists of overburden soil, asphalt, and pipe generated during remediation activities.

The SWMU 21-027(c) at DPSAA was a drain line that ran from Building 21-6 to an outfall. The waste (approximately 15 cubic yards) was containerized in a DOT-approved roll off container and is being managed as hazardous waste in a less-than-90-day accumulation area at TA-21 pending this "contained in" determination. Waste characterization samples were collected directly from the roll off container. Total analytical results indicate that the cuttings contain very low concentrations of an organic constituent that may have originated from processes for which F-listed hazardous wastes are identified.

Toxicity Characteristic Leaching Procedure (TCLP) concentrations for all metals were below the regulatory levels. All validated organic and metals data from sampling and analysis of the container are included as Enclosure 1 to this letter. Radionuclide data are also included for information purposes.

LANL has compared the maximum detected concentrations of methylene chloride (F002 listed organic constituent), with NMED Soil Screening Levels (SSLs) and U.S.

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Environmental Protection Agency (EPA) Region 6 Human Health Medium-Specific Screening Levels (MSSLs) to determine whether the detected concentration presents a health-based concern for an industrial receptor. Industrial screening levels were selected because the anticipated final disposition of the environmental media and debris is at an authorized waste disposal facility for low-level radioactive waste.

The comparisons in Table 1 are limited to the organic constituent that is potentially F-listed hazardous waste (i.e., methylene chloride) based on historical knowledge of its use. The maximum detected concentration of methylene chloride in the waste is below the industrial SSLs and MSSLs as shown in Table 1.

According to EPA documents and associated guidance, the authorized state may also make a determination on a case-specific basis as to how the Land Disposal Restrictions (LDRs) apply to the waste when a "contained in" determination has been made. Because the maximum detected concentration of methylene chloride from the TA-21 DPSAA remediation project is below the LDR treatment standard, as shown in Table 1, LANL also requests a determination from NMED that LDRs will not apply to the environmental media and debris, and that it may be disposed of as nonhazardous waste.

LANL believes that a "contained in" determination for the organic constituent shown in Table 1 is appropriate because it would be protective of human health and the environment, and would allow for cost-effective removal of the environmental media and debris from the TA-21, DPSAA Remediation project currently staged at TA-21.

Please contact Kelly VanDerpoel at (505) 667-2172 of the Water Quality and RCRA Group (ENV-RCRA) if you have any questions.

Sincerely,

Dale Marie Sandoval DGL

for Anthony R. Grieggs
Group Leader
Water Quality & RCRA (ENV-RCRA) Group

ARG:KV/lm

Enclosures: a/s

Cy: John Young, NMED/HWB, Santa Fe, NM, w/enc.
David Cobrain, NMED/HWB, Santa Fe, NM, w/enc.
Gene Turner, LASO/EO, w/enc., MS A316
Michael B. Mallory, PADOPS, w/o enc., MS A102
Richard S. Watkins, ADESHQ, w/o enc., MS K491

Cy (continued):
Tori George, ENV-DO, w/enc., MS J978
Kelly VanDerpoel, ENV-RCRA, w/enc., MS K490
John Tymkowych, ENV-RCRA, w/enc., MS K490
Roy Bohn, ERSS-RS, w/enc., MS C349
Mark Thacker, ERSS-RS, w/enc., MS C349
Bill Criswell, TA-21 Closure Project, w/o enc., MS C349
Allan Chaloupka, TA-21 Closure Project, w/o enc., MS C349
TA-21 Project File, w/enc., MS C349
ENV-RCRA, File, w/enc., MS K490
IRM-RMMSO, w/enc., MS A150

Table 1
Comparison of Potential F-Listed Organic Constituent Detected in TA-21 DPSAA Soil Samples to SSLs, MSSLs, and LDR Treatment Standards

Constituent	Sample No.	Matrix	Maximum Concentration (mg/kg)	NMED Industrial SSL (mg/kg)[1]	EPA Region 6 Industrial/Outdoor Worker MSSL (mg/kg)[2]	LDR Treatment Standard (mg/kg)[3]
Methylene Chloride	RE21-07-3108	Solid	0.00645	490	22	30

mg/kg = milligrams per kilogram
MSSL = Medium Specific Screening Level
NMED = New Mexico Environment Department
LDR = Land Disposal Restrictions
SSL= Soil Screening Level
1 – From "Technical Background Document for Development of Soil Screening Level" Revision 4.0 June 2006, New Mexico Environment Department
2 – From "EPA Region 6 Human Health Medium-Specific Screening Levels", February 2007, US Environmental Protection Agency
3 – LDR Treatment Standards for Hazardous Wastes, Nonwastewaters, as provided in 40 CFR 268.40 and adopted by 20.4.1.800 NMAC

Enclosure 1

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result UOM	Dilution Factor	Reporting Qualifier
RE21-07-3108	AM_241	HASL-300:AM-241	Americium-241	0.155	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Americium-241	0.247	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Bismuth-211	3.1	pCi/g	1	R
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Bismuth-214	1.18	pCi/g	1	R
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Cadmium-109	1.72	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Cerium-139	-0.0271	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Cesium-134	0.121	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Cesium-137	0.0896	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Cobalt-60	-0.0629	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Europium-152	0.0861	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Lanthanum-140	0.105	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Lead-212	1.38	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Lead-214	1.08	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Mercury-203	0.0288	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Potassium-40	23.1	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Radium-223	0.132	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Radium-224	5.35	pCi/g	1	R
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Radium-226	1.18	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Radium-228	1.5	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Ruthenium-106	0.227	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Sodium-22	0.0243	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Strontium-85	0.212	pCi/g	1	R
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Thallium-208	0.495	pCi/g	1	
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Thorium-227	0.0889	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Thorium-231	0.387	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Thorium-234	1.89	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Tin-113	0.00789	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Uranium-235	0.0129	pCi/g	1	U
RE21-07-3108	GAMMA_SPEC	EPA:901.1	Yttrium-88	-0.00629	pCi/g	1	U
RE21-07-3108	GROSSAB	EPA:900	Gross alpha/beta	21	pCi/g	1	
RE21-07-3108	GROSSAB	EPA:900	Gross beta	30.6	pCi/g	1	
RE21-07-3108	H3	EPA:906.0	Tritium	0.018099418	pCi/g	1	
RE21-07-3108	ISO_PU	HASL-300:ISOPU	Plutonium-238	0.0102	pCi/g	1	U
RE21-07-3108	ISO_PU	HASL-300:ISOPU	239/Plutonium-240	2.58	pCi/g	1	
RE21-07-3108	ISO_U	HASL-300:ISOU	Uranium-234	0.967	pCi/g	1	
RE21-07-3108	ISO_U	HASL-300:ISOU	Uranium-235	0.0744	pCi/g	1	
RE21-07-3108	ISO_U	HASL-300:ISOU	Uranium-238	0.826	pCi/g	1	
RE21-07-3108	SR_90	EPA:905.0	Strontium-90	-0.0704	pCi/g	1	U

Field1
Reporting Qualifier Description
U = nondetect
UJ = estimated non detect
J = estimated detect
R = reject
Null = detect

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result	Dilution Factor	Reporting Qualifier
RE21-07-3108	ANION	EPA:300.0	Nitrate	1.48	mg/kg	1	
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Arsenic	50	ug/L	1	U
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Barium	860	ug/L	1	
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Cadmium	10	ug/L	1	U
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Chromium	30	ug/L	1	U
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Lead	20	ug/L	1	U
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Selenium	50	ug/L	1	U
RE21-07-3108	METAL_TCLP	846:6020_TCLP	Silver	10	ug/L	1	U
RE21-07-3108	METAL_TCLP	846:7470A_TCLP	Mercury	2	ug/L	1	U
RE21-07-3108	METALS	SW-846:6010B	Aluminum	5190	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Arsenic	2.82	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Barium	87.3	mg/kg	1	J+
RE21-07-3108	METALS	SW-846:6010B	Cadmium	0.523	mg/kg	1	U
RE21-07-3108	METALS	SW-846:6010B	Calcium	2760	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Chromium	5.74	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Cobalt	2.61	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Copper	5.46	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Iron	9150	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Lead	10.4	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Magnesium	1220	mg/kg	1	J+
RE21-07-3108	METALS	SW-846:6010B	Manganese	232	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Potassium	733	mg/kg	1	J+
RE21-07-3108	METALS	SW-846:6010B	Selenium	0.603	mg/kg	1	J
RE21-07-3108	METALS	SW-846:6010B	Sodium	82.3	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Vanadium	14.2	mg/kg	1	
RE21-07-3108	METALS	SW-846:6010B	Zinc	71.9	mg/kg	1	
RE21-07-3108	METALS	SW-846:6020	Antimony	0.42	mg/kg	2	UJ
RE21-07-3108	METALS	SW-846:6020	Beryllium	0.63	mg/kg	2	
RE21-07-3108	METALS	SW-846:6020	Nickel	5.45	mg/kg	2	J-
RE21-07-3108	METALS	SW-846:6020	Silver	0.0599	mg/kg	2	J
RE21-07-3108	METALS	SW-846:6020	Thallium	0.199	mg/kg	2	J
RE21-07-3108	METALS	SW-846:7471A	Mercury	0.0214	mg/kg	1	
RE21-07-3108	E	SW-846:6850	Perchlorate	0.00211	mg/kg	1	U
RE21-07-3108	WET_CHEM	SW-846:9012A	Cyanide (Total)	0.262	mg/kg	1	U
RE21-07-3108	HERB	SW-846:8151A	D[2,4-]	0.0446	mg/kg	5	U

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result	Dilution Factor	Reporting Qualifier
RE21-07-3108	HERB	SW-846:8151A	Dalapon	0.446	mg/kg	5	UJ
RE21-07-3108	HERB	SW-846:8151A	DB[2,4-]	0.0446	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	Dicamba	0.0446	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	Dichlorprop	0.0446	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	Dinoseb	0.0446	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	MCPA	8.93	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	MCPP	8.93	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	T[2,4,5-]	0.0446	mg/kg	5	U
RE21-07-3108	HERB	SW-846:8151A	TP[2,4,5-]	0.0446	mg/kg	5	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1016	0.0357	mg/kg	10	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1221	0.0357	mg/kg	10	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1232	0.0357	mg/kg	10	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1242	0.0357	mg/kg	10	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1248	0.0357	mg/kg	10	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1254	0.0357	mg/kg	10	U
RE21-07-3108	PCB	SW-846:8082	Aroclor-1260	0.0357	mg/kg	10	U
RE21-07-3108	PEST	SW-846:8081A	Aldrin	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	BHC[alpha-]	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	BHC[beta-]	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	BHC[delta-]	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	BHC[gamma-]	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Chlordane[alpha-]	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Chlordane[gamma-]	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	DDD[4,4'-]	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	DDE[4,4'-]	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	DDT[4,4'-]	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Dieldrin	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Endosulfan I	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Endosulfan II	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Endosulfan Sulfate	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Endrin	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Endrin Aldehyde	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Endrin Ketone	0.0286	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Heptachlor	0.0143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Heptachlor Epoxide	0.0143	mg/kg	20	U

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result	Dilution Factor	Reporting Qualifier
RE21-07-3108	PEST	SW-846:8081A	Methoxychlor[4,4'-]	0.143	mg/kg	20	U
RE21-07-3108	PEST	SW-846:8081A	Toxaphene (Technical Grade)	0.714	mg/kg	20	U
RE21-07-3108	SVOC	SW-846:8270C	Acenaphthene	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Acenaphthylene	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Aniline	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Anthracene	0.0753	mg/kg	10	J
RE21-07-3108	SVOC	SW-846:8270C	Azobenzene	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Benzo(a)anthracene	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Benzo(a)pyrene	0.357	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Benzo(b)fluoranthene	0.707	mg/kg	10	J
RE21-07-3108	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	0.357	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Benzo(k)fluoranthene	0.357	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Benzoic Acid	7.14	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Benzyl Alcohol	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Bis(2-chloroethoxy)methane	3.57	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Bis(2-chloroethyl)ether	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Bis(2-ethylhexyl)phthalate	1.79	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Bromophenyl-phenylether[4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Butylbenzylphthalate	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Chloro-3-methylphenol[4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Chloroaniline[4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Chloronaphthalene[2-]	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Chlorophenol[2-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Chlorophenyl-phenyl[4-] Ether	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Chrysene	0.475	mg/kg	10	
RE21-07-3108	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	0.357	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Dibenzofuran	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dichlorobenzene[1,2-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dichlorobenzene[1,3-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dichlorobenzene[1,4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dichlorobenzidine[3,3'-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dichlorophenol[2,4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Diethylphthalate	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dimethyl Phthalate	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dimethylphenol[2,4-]	3.57	mg/kg	10	U

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result	Dilution Factor	Reporting Qualifier
RE21-07-3108	SVOC	SW-846:8270C	Di-n-butylphthalate	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dinitro-2-methylphenol[4,6-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dinitrophenol[2,4-]	7.14	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Dinitrotoluene[2,4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Dinitrotoluene[2,6-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Di-n-octylphthalate	3.57	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Diphenylamine	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Fluoranthene	0.872	mg/kg	10	
RE21-07-3108	SVOC	SW-846:8270C	Fluorene	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Hexachlorobenzene	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Hexachlorobutadiene	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Hexachlorocyclopentadiene	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Hexachloroethane	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	0.357	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Isophorone	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Methylnaphthalene[2-]	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Methylphenol[2-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Methylphenol[4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Naphthalene	0.357	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Nitroaniline[2-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Nitroaniline[3-]	3.57	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Nitroaniline[4-]	3.57	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Nitrobenzene	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Nitrophenol[2-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Nitrophenol[4-]	3.57	mg/kg	10	UJ
RE21-07-3108	SVOC	SW-846:8270C	Nitrosodimethylamine[N-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Nitroso-di-n-propylamine[N-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Oxybis(1-chloropropane)[2,2'-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Pentachlorophenol	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Phenanthrene	0.45	mg/kg	10	
RE21-07-3108	SVOC	SW-846:8270C	Phenol	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Pyrene	0.971	mg/kg	10	
RE21-07-3108	SVOC	SW-846:8270C	Pyridine	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Trichlorobenzene[1,2,4-]	3.57	mg/kg	10	U
RE21-07-3108	SVOC	SW-846:8270C	Trichlorophenol[2,4,5-]	3.57	mg/kg	10	U

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result	Dilution Factor	Reporting Qualifier
RE21-07-3108	SVOC	SW-846:8270C	Trichlorophenol[2,4,6-]	3.57	mg/kg	10	U
RE21-07-3108	VOC	SW-846:8260B	Acetone	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Benzene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Bromobenzene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Bromochloromethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Bromodichloromethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Bromoform	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Bromomethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Butanone[2-]	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Butylbenzene[n-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Butylbenzene[sec-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Butylbenzene[tert-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Carbon Disulfide	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Carbon Tetrachloride	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chlorobenzene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chlorodibromomethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chloroethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chloroform	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chloromethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chlorotoluene[2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Chlorotoluene[4-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dibromo-3-Chloropropane[1,2-]	0.00107	mg/kg	1	UJ
RE21-07-3108	VOC	SW-846:8260B	Dibromoethane[1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dibromomethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichlorobenzene[1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichlorobenzene[1,3-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichlorobenzene[1,4-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichlorodifluoromethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloroethane[1,1-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloroethane[1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloroethene[1,1-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloroethene[trans-1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloropropane[1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloropropane[1,3-]	0.00107	mg/kg	1	U

Sample ID	Analytical Suite	Analytical Method	Analyte	Std Result	Std Result	Dilution Factor	Reporting Qualifier
RE21-07-3108	VOC	SW-846:8260B	Dichloropropane[2,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloropropene[1,1-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloropropene[cis-1,3-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Dichloropropene[trans-1,3-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Ethylbenzene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Hexanone[2-]	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Iodomethane	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Isopropylbenzene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Isopropyltoluene[4-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Methyl-2-pentanone[4-]	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Methylene Chloride	0.00645	mg/kg	1	
RE21-07-3108	VOC	SW-846:8260B	Propylbenzene[1-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Styrene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Tetrachloroethane[1,1,1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Tetrachloroethane[1,1,2,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Tetrachloroethene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Toluene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	trifluoroethane[1,1,2-]	0.00536	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trichloroethene	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trichlorofluoromethane	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trichloropropane[1,2,3-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Trimethylbenzene[1,3,5-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Vinyl Chloride	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Xylene[1,2-]	0.00107	mg/kg	1	U
RE21-07-3108	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	0.00214	mg/kg	1	U