REDACTED

SITE INSPECTION
BURLINGTON INDUSTRIES CHERAW
SCS 123 457 698
CHERAW, SOUTH CAROLINA
CHESTERFIELD COUNTY

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
61 Forsyth Street
Atlanta, Georgia 30303

Prepared by:

South Carolina Department of Health and Environmental Control
Division of Site Assessment and Remediation
Federal & State Site Assessment Section
2600 Bull Street
Columbia, South Carolina 29201

September 27, 2016

Prepared by:	Reviewed by:	Approved by:
Jonathan McInnis **Program Manager** **DHEC**	**Robert Cole** **Environmental Health Manager** **DHEC**	**Jeffery Crowley, RPM** **Superfund Site Evaluation Section, USEPA Region IV**

JEFFERY CROWLEY Digitally signed by JEFFERY CROWLEY Date: 2016.09.28 14:53:54 -04'00'

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1.0 INTRODUCTION

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Federal and State Site Assessment Section, South Carolina Department of Health and Environmental Control (DHEC) has conducted a Site Inspection (SI) for the Burlington Industries Cheraw site (the Site) in Chesterfield County, South Carolina. The information gathered from this investigation will be used to decide future CERCLA activity at the site.

2.0 LOCATION

The site is located at 650 Chesterfield Highway within the city limits of Cheraw, in Chesterfield County. The site encompasses an approximate 50-acre parcel with a large manufacturing complex (now owned and operated as Highland Industries), and multiple residential lots to the north and northwest (developed and vacant) where former sludge drying beds were located. When Burlington Industries originally built the plant in the late 1950's, the lots were part of the plant property (Ref. 7). The geographic coordinates of the Site are 34.695531° N, -79.913499° W (Appendix B).

3.0 OWNERSHIP

Manufacturing Facility:

1988- present
Highland Industries
Takata Corporation of Japan (Parent Company)
650 Chesterfield Hwy
Cheraw, SC 29520

Opened 1961 by Burlington Industries, also known as James Fabric Plant

Residential Lots:

Vacant Little John Rd Parcel

(b) (6) (b) (6)

(Ref. 7)

4.0 SITE HISTORY / DESCRIPTION

In October 2015, the SCDHEC Site Assessment section was contacted by a resident that had reason to believe that some sort of wastewater unit had been historically located on his property and or an adjacent vacant lot. Research during the PSA concluded that there had been permitted sludge drying beds located on at least one (now vacant) residential lot. Sampling for the PSA found elevated levels of PCBs (Aroclor 1248) in the vacant residential lot and the adjacent drainage ditch, which originates on the manufacturing property.

In March 1974, SCDHEC issued Construction Permit 2852-C to Burlington Industries for "a chemical pretreatment system having recycling capabilities comprising units for neutralization, chemical precipitation, dissolved air flotation and sludge handling" (Ref. 11). According to a 1989 letter from Burlington requesting permission to remove or cover remaining sludge:

> *In the early to mid-1970's, the plant was applying latex and acrylic finishes along with pigment dyes and delusterants to fiberglass fabrics and some of this material was falling out in the sewer lines causing blockage problems for the city. At their request, the plant installed a settling tank and the sludges from this tank were pumped onto drying beds behind the plant.*
>
> (Ref. 12)

Analytical data was also sent to SCDHEC but is not present in available files. The letter only mentions that the sludge had been tested in 1980 and 1989 and found to be "non-hazardous". SCDHEC issued a waste disposal authorization to Burlington to dispose of 300 yd^3 of dried sludge at the Chesterfield County landfill (SCDHEC DWP-128) (Ref. 13).

A large land tract owned by Burlington Industries was sold in 1990 to a developer who subdivided it into the current residential neighborhood (Ref. 7). Based on overlays of historical aerial photography, it appears that the sludge drying beds sat predominantly on the vacant lot at the intersection of Little John Road and Robin Hood Drive. Today, this lot is mostly cleared with woods bordering south, east, and west boundaries. Noted during field activities at the site are small pieces of a dark green dark gray rubbery sludge-like material across the lot and the adjoining lot on Robin Hood Drive. This same material is present in larger "chunks" along the western edge of the vacant lot, appearing as though the material was pushed to that side of the property as the lot was graded (Ref. 6).

SCDHEC approached Highland Industries about performing additional assessment activities at the site based on the PSA results showing elevated levels of PCBs on and around the former sludge drying bed areas. Highland Industries declined the invitation as they never owned the parcel where the drying beds were located (Ref. 15). The SCDHEC Superfund State Remedial group began a sampling effort in late August 2016 to further characterize the site. This investigation included the collection of many surface and sub-surface soil samples both on Highland Industries property and on and around the former sludge drying bed parcel. Also, many nearby residential yards were sampled, as well as additional sampling in the drainage ditch creek leading from the site. Field PCB screening was employed (Dexsil L2000DX) to

decide which samples would be sent for laboratory analysis (Ref. 18). Over 100 samples were collected for field screening and 56 were sent for laboratory analysis (all for Aroclors, selected samples for PCB congeners, metals, SVOAs, and VOCs). See Figures 9-11 for sampling locations for this investigation. This Site Inspection will utilize this SCDHEC-gathered analytical data to determine future Federal Superfund actions.

5.0 WASTE SOURCES

Sampling for this investigation as well as the earlier PSA has identified PCB contamination in a ditch beginning on Highland Industries property as well as in on-site and off-site soils. At this time the exact source of the PCB contamination is not known. It is known that the Burlington Industries Cheraw facility was built as "the world's first giant mill for weaving glass fibers" (Ref. 19). Over time, various specialty textiles are believed to have been produced at the facility. PCB oils were used for heat transfer fluids for various industrial processes (Ref. 20). A Burlington Industries plant in Altavista, VA, that opened in 1958 and produced fiberglass fabric, documented similarly high PCB contamination in and around the facility from a roof-mounted heat exchanger (Ref. 21). Also, PCB-containing compounds were used as fabric coatings for heat and/or flame resistance (Ref. 20). For purposes of this report, the site's waste source will be assumed to be an area of contaminated soil approximately two acres in size (approximately 1.5 acres inside the current Highland property boundary and 0.5 acres on the vacant residential lot where the sludge drying beds were historically located. Sampling for this investigation found PCBs elevated on-site as shown in Table 1 below:

Table 1: On-site soil results - August 2016

	BL-BKG-SS	BL-BKG-SB	BL-SS-28	BL-SB-28	BL-SB-80	BL-SS-27D	BL-SS-39
All values are ug/kg	BACKGROUND		N of Drum Storage Area		S of propane tanks	Discharge corner of sedimentation basin	At facility property line near former sludge drying bed location
	SURFACE SOIL	SUB-SURFACE SOIL	SURFACE SOIL	SUB-SURFACE SOIL	SUB-SURFACE SOIL	SURFACE SOIL	SURFACE SOIL
Aroclor 1248	9.7 U	15	1,500,000	82,000	20,000	68,000	20
Aroclor 1254	9.7 U	11 U	1,300,000	67,000	22,000	37,000	27
Notes:							
U - undetected							

6.0 PATHWAY EVALUATION
6.1 GROUNDWATER MIGRATION PATHWAY

The Town of Cheraw municipal water system provides drinking water to the area surrounding the site, sourced from an up-gradient location on the Great Pee Dee River (Ref. 2). There are no known drinking water wells within ¼-mile of the site, and due to the presence of public water lines in the area it is unlikely that any wells are located within 1 mile (Ref. 1, 3, 6). Based on the limited groundwater use in the area, the groundwater pathway was not evaluated for this report.

6.2 SURFACE WATER MIGRATION PATHWAY

Regional Characteristics / Targets

The site lies within the Pee Dee River sub-basin (Ref. 8). A small drainage ditch that begins on Highland Industries property flows along the western edge of the vacant lot in a northerly direction approximately 1,000 feet to meet an easterly-flowing creek. This intermittent creek flows approximately one mile to the east meet the perennial Wilson Branch (Ref. 1). Wilson Branch flows in a northeasterly direction for ½-mile to meet Huckleberry Branch. Huckleberry Branch flows 1.5 miles east/southeasterly to reach the Great Pee Dee River. The 15-mile target distance limit for purposes of this report ends 13 miles downstream in the Great Pee Dee River near Bennettsville (Ref. 1). There are several ponds located along the surface water pathway near the intersection of Wilson Branch. The interaction of the creek and these ponds is not fully documented at this time. However, a branch of the creek directly flows through at least one of the three downstream ponds (Ref. 16).

The entire surface water pathway from Wilson Branch on is lined by wetlands (Ref. 1). Fishing is likely to occur in the ponds east of the site as well as Wilson Branch, Huckleberry Branch, and the Great Pee Dee River (Ref. 1, 8). A Town park is located along this creek beyond the ponds with obvious recreational use of the creek for wading/playing (Ref. 16).

Surface Water Impacts

Sampling for the PSA in February 2016 found levels of PCB 1248 and several polycyclic aromatic hydrocarbons (PAHs) in two sediment samples from the ditch leaving Highland Industries at levels significantly elevated above screening values (Ref. 5). Sampling for this investigation again detected very high levels of PCBs in the ditch, both on and off current Highland Industries property (Ref. 17). Selected PCB laboratory analysis is shown below in Tables 2 and 3:

Table 2: Selected ditch samples on Highland Industries property

All values are ug/kg	BL-BKG-SD	BL-DS-01B	BL-SD-01	BL-SD-04	BL-DS-04	BL-SD-05	BL-SD-06	BL-DS-06
	BACKGROUND	DITCH SEDIMENTS ON HIGHLAND INDUSTRIES PROPERTY						
Aroclor 1248	19	230,000	550,000	260,000	780,000	150,000	1,000,000	1,900,000
Aroclor 1254	15 U	12,000 U	360,000	240,000	730,000	150,000	660,000	880,000
Notes:								
U - undetected								
SD - shallow sediments 0 - 6"								
DS - deep sediments generally 6-12"								

Table 3: Sediment from ditch/creek off Highland Industries property

All values are ug/kg	BL-BKG-SD	BL-SD-09	BL-DS-09	BL-SD-13	BL-DS-13	BL-DS-14	BL-SD-16	BL-SD-18	BL-DS-18	BL-SD-19	BL-DS-19
	BACKGROUND	DITCH SEDIMENTS OFF HIGHLAND INDUSTRIES PROPERTY BORDERING RESIDENTIAL PROPERTIES								Downstream pond	
Aroclor 1248	19	340,000	1,300,000	110,000	81,000	85,000	89,000	250,000	110,000	100	67
Aroclor 1254	15 U	260,000	710,000	73,000	56,000	7,100 U	70,000	18,000 U	82,000	45	12 U
Notes:											
U - undetected											
SD - shallow sediments 0 - 6"											
DS - deep sediments generally 6-12"											

(Ref. 17)

Given the very high PCB detections in the ditch on-site and leaving the facility, the SCDHEC State Remedial section has begun a second phase of sampling to assess the surface water pathway all the way to the Pee Dee River. This investigation is currently underway. Additionally, several pesticides were detected at levels greatly exceeding USEPA screening values in sediment samples generally co-located with the highest PCB levels (Ref. 17). Additional evaluation of these detections is ongoing and additional full-scan laboratory analyses during the second phase will further clarify these detections.

6.3 SOIL EXPOSURE / AIR PATHWAYS

Regional Characteristics Targets

The site is located within the city limits of Cheraw, SC (Ref. 1). The city has a total population of 5,851 (Ref. 4). On-site soil is classified as Pelion loamy sand (Ref. 3). Long Junior High School is located approximately 1500 feet east of the site at the intersection of W Greene Street and Jersey Street. No schools or daycares are located within 200 feet of the site (Ref. 1, 9). Access to the site is not restricted (Ref. 6). The population within ¼-mile of the site is estimated to be 156, within ½-mile 720 (Ref. 1, 4).

Soil Exposure Impacts

February 2016 sampling for the PSA found PCB-1248 in 5 of 7 on-site soil samples at levels ranging from 300 14,000 ug/kg, greater than the USEPA Regional Screening Level (RSL) for residential soil of 230 ug/kg (Ref. 5, 10). Sampling for this investigation included the collection of many samples from nearby residential properties to determine if PCB contamination was present. PCBs were detected at levels greater than the RSL in most of the eight residential yards sampled (Ref. 17). Additional sampling is underway by the SCDHEC State Remedial section to further characterize the extent of contamination in each yard and to evaluate all nearby residential properties for impact. Residents have been notified of the detections and a public meeting is planned for October 2016. Selected residential soil sample data is shown below in Table 4:

Table 4: Residential Lot Sampling - August 2016

Sample ID	Area	Aroclor 1248	Aroclor 1254
		all values in ug/kg	
BL-SS-11A	Former Sludge Drying Bed Area - Vacant Residential Lot	130,000	100,000
BL-WA-01		260,000	10,000 U
BL-WA-2		14,000	1,000 U
BL-SS-48	Residential Yards on Pecan Drive	490,000	590,000
BL-SS-48A		4,900	7,900
BL-SS-48B		4,100	6,700
BL-SS-52		41,000	63,000
BL-SS-52A		110,000	110,000
BL-SS-52B		850	1,400
BL-SS-53		42,000	48,000
BL-SS-53A		180	300
BL-SS-70		37,000	48,000
BL-SS-73		110 U	2,400
BL-SS-74		2,100	5,300
BL-SS-75		160,000	180,000
BL-SS-75A		2,100	2,900
BL-SS-75B		610	1,800
BL-SS-75C		11 U	88
BL-SS-75D		410	610
BL-SS-57	Residential Yards on Robin Hood Drive	4,500	3,700
BL-SS-58		12,000	7,400
BL-SS-59		9.5 U	33
BL-SS-67		1,700	2,200
BL-SS-67-DUP		1,200	1,600
Notes:			
U - undetected			

(Ref. 17)

7.0 SUMMARY / CONCLUSIONS

The Burlington Industries Cheraw site was initially a citizen complaint to SCDHEC questioning whether wastewater units had been located on residential property. The previous PSA confirmed the historical presence of sludge-drying beds on what is now one or two residential lots and found elevated PCBs on those properties and in the adjacent drainage ditch. Sampling for this investigation documented widespread PCB contamination in on and off-site soils, the drainage ditch that originates on the facility, and in nearby residential yards.

A second phase of assessment is underway by SCDHEC to delineate the extent of contamination in soil, and to assess the downstream surface water pathway. SCDHEC has had additional discussions with the current owner of the manufacturing facility, Highland Industries, about conducting additional assessment and/or remediation under a Voluntary Cleanup Contract (VCC). SCDHEC and Highland Industries will reconvene when analytical data from the second phase is available by mid-October 2016. Without a VCC for further assessment and remediation of all areas of concern, the site will be referred to USEPA for a Removal Site Evaluation and for potential placement on the National Priorities List (NPL).

8.0 REFERENCES

1. Google Earth Professional. Last accessed April 2016.

2. SCDHEC, Environmental Facility Information System (EFIS). Last accessed July 2016.

3. SoilWeb: An Online Soil Survey Browser. http://casoilresource.lawr.ucdavis.edu/gmap/. Accessed in March 2016.

4. US Department of Commerce. US Census Bureau Statistics. http://censusviewer.com/city/SC/Cheraw. Last accessed March 2016.

5. USEPA Region 4 Science and Ecosystem Support Division. Final Analytical Report for Burlington Industries Cheraw former Lagoon. VOAs - March 21, 2016, OCP/PCB – March 31, 2016, Metals – April 4, 2016, SVOA - April 8, 2016.

6. SCDHEC Site Assessment Section: Jonathan McInnis, Project Manager. Trip Report for Burlington Industries Cheraw former Lagoon XPSA, February 26, 2016.

7. Chesterfield County Online Tax Assessor: last accessed March 24, 2016. http://www.chesterfieldcountysc.com/services/OnlineAssesor/default.aspx

8. SC Water Resources Commission. SC State Water Assessment. September 1983. Available at DHEC.

9. SC Department of Social Services., SC Child Care Provider Database. http://www.scchildcare.org/ last accessed April 2016.

10. USEPA. Regional Screening Levels for Chemical Contaminants at Superfund Sites. http://www.epa.gov/region9/superfund/prg/ last accessed April 2016.

11. SCDHEC. Construction Permit for Wastewater Unit – Burlington Industries, Permit #2852-C, March 7, 1974.

12. Theodore H. LeJeune, P.E., Senior Environmental Engineer, Burlington Industries. Letter to Harold Seabrook, SCDHEC concerning Disposal of Sludge Residues. November 20, 1989.

13. Gerald Shealy, SCDHEC. Letter to Burlington Industries authorizing sludge disposal in sanitary landfill. November 30, 1989.

14. National Oceanic and Atmospheric Administration. Screening Quick Reference Tables for Organics – Sediment. Probable Effect Levels from MacDonald, et al, 2000. Canadian Sediment Quality Guidelines for the Protection of Aquatic Life, http://st-ts.ccme.ca/en/index.html

15. Highland Industries. Letter to David Wilkie, SCDHEC concerning the invitation to enter into a Voluntary Cleanup Contract.

16. Field Notes from SCDHEC State Remediation Section Second Phase Investigation at Burlington Industries Cheraw. September 20, 2016. Available at SCDHEC.

17. Analytical Data from SCDHEC State Remediation Investigation at Burlington Industries Cheraw. August 2016.

18. synTerra. Sediment and Soil Sampling and Analysis Workplan for SCDHEC Site Remediation Investigation at Burlington Industries Cheraw. August 2016.

19. BGF Industries Company Timeline. http://www.bgf.com/wp-content/uploads/2014/04/timeline.pdf last accessed September 22, 2016/

20. Oregon Department of Environmental Quality. Fact Sheet: Sources of Polychlorinated Biphenyls. http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/docs/SourcePCBs.pdf Last accessed September 25, 2016.

21. Jonathan McInnis, SCDHEC. Record of Communication with Kip Foster, Virginia Department of Environmental Quality regarding the Burlington Industries Altavista facility. September 23, 2016.

APPENDIX A: MAPS / FIGURES

Figure 1 - General Location

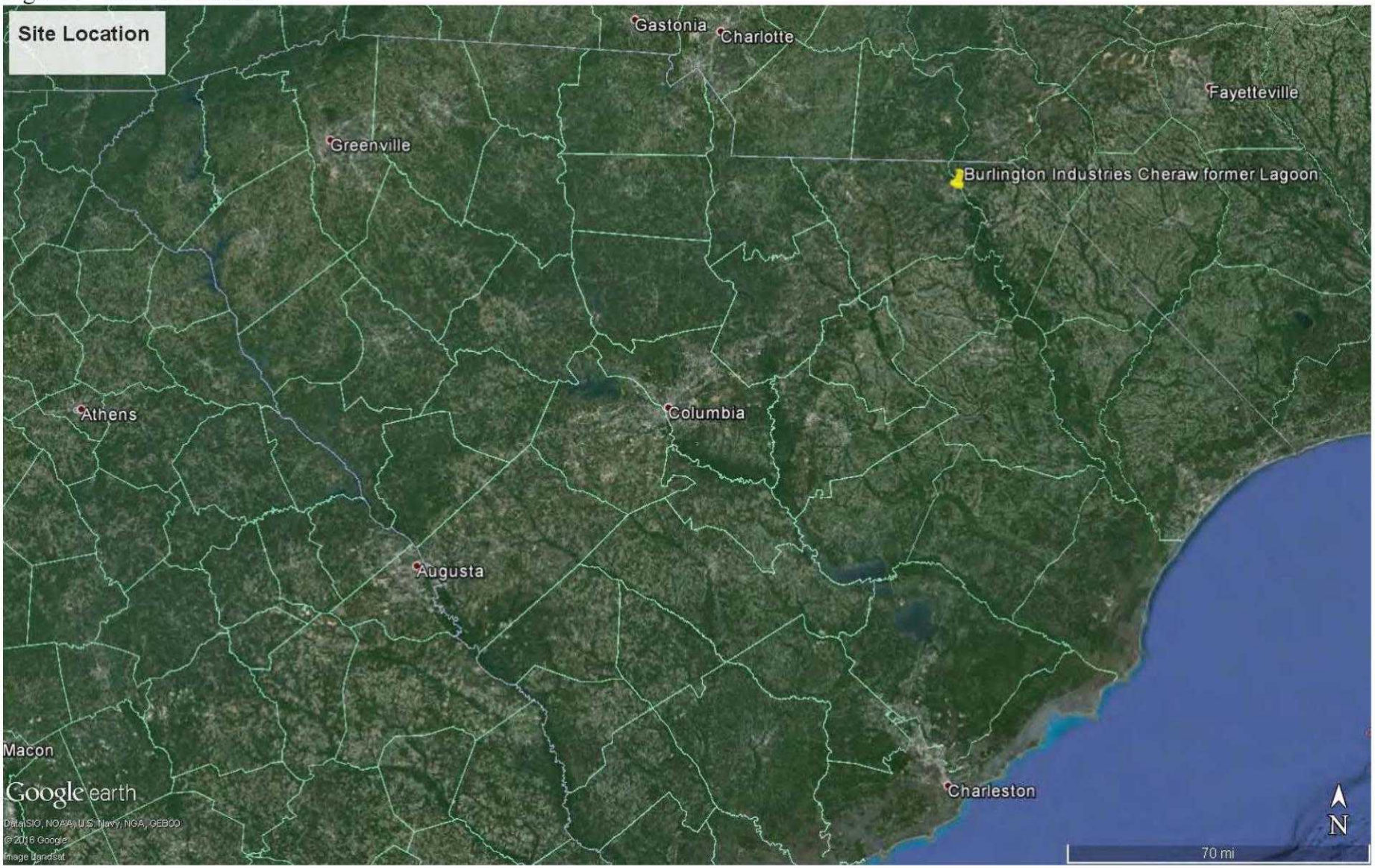


Figure 2 – Site Location in City of Cheraw

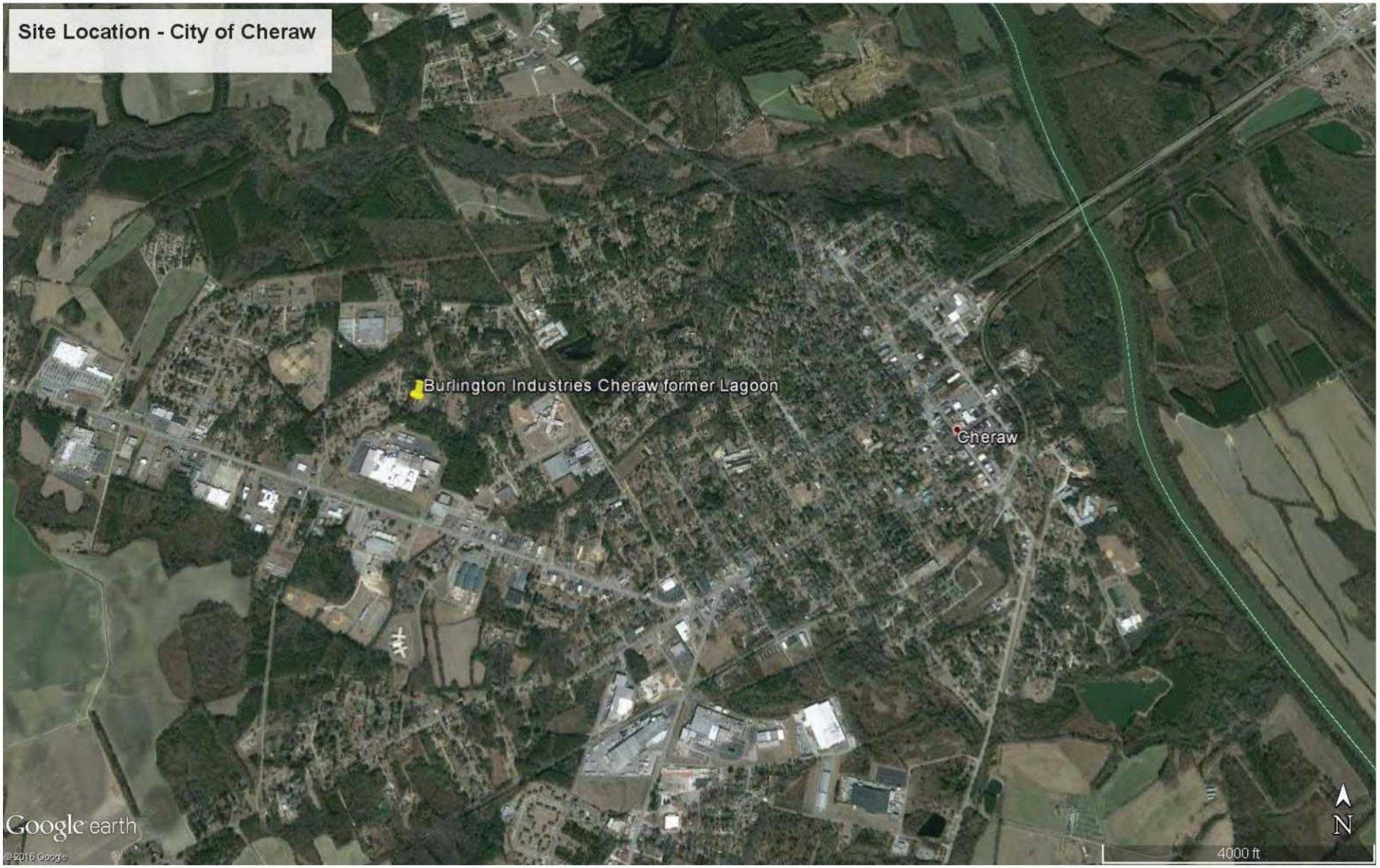


Figure 3

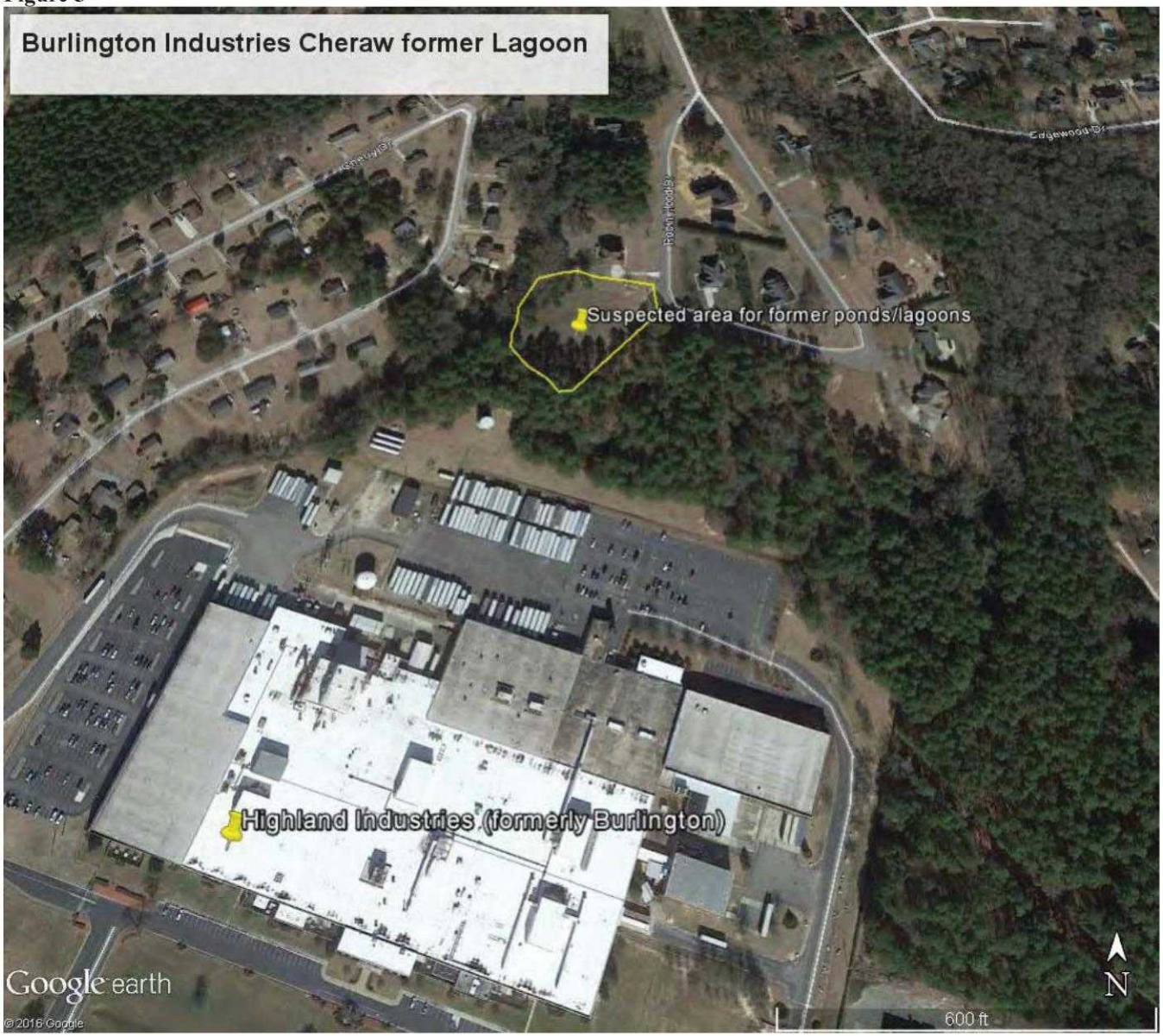

Burlington Industries Cheraw former Lagoon
Suspected area for former ponds/lagoons
Highland Industries (formerly Burlington)
Google earth
© 2016 Google
N
600 ft

Figure 4 – 1975 aerial photo overlay from Google Earth

Figure 5 – 1981 aerial photo overlay from Google Earth

Figure 6 – Surface Water Pathway to Great Pee Dee River

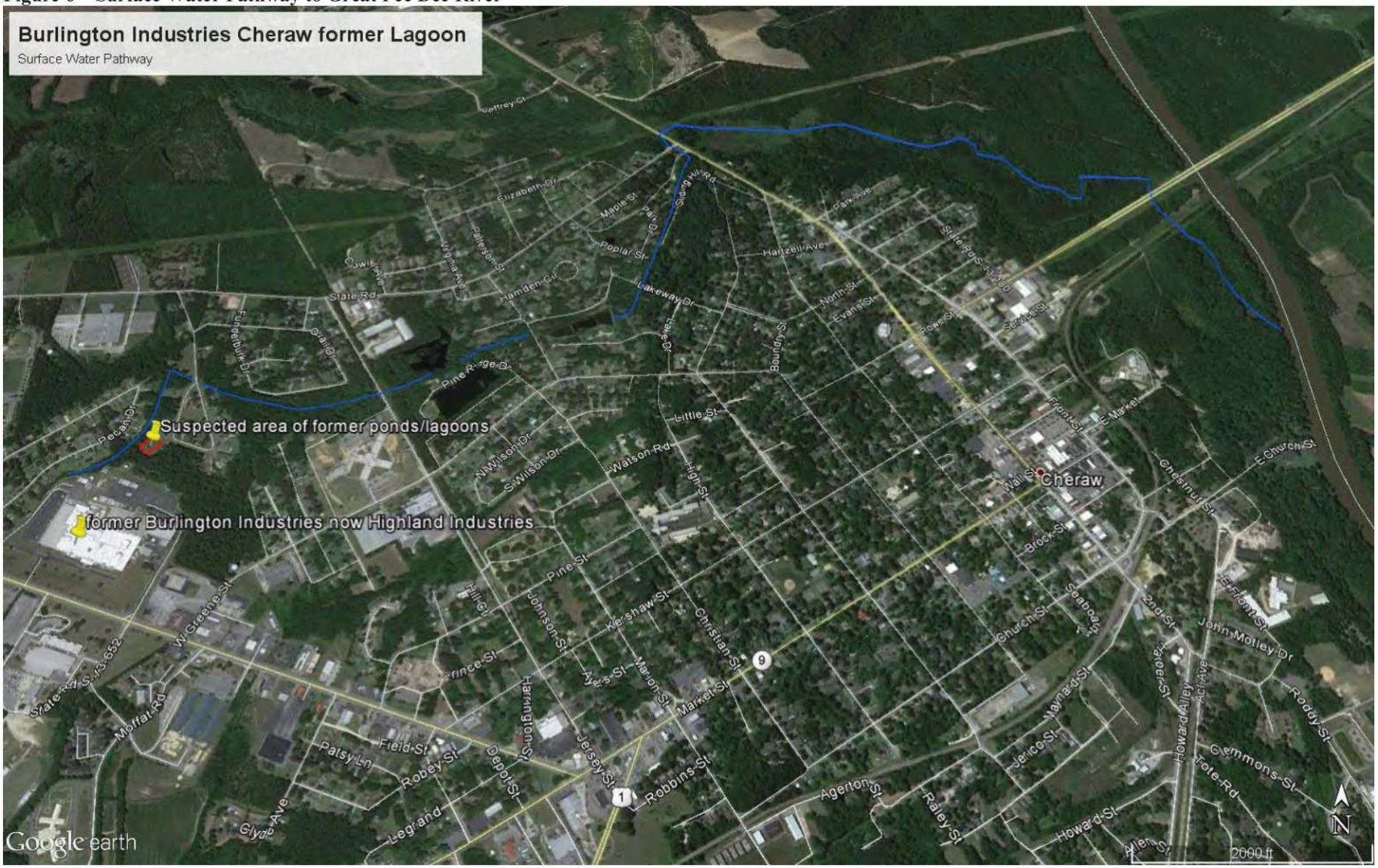


Figure 7 – Samples collected for 2016 Expanded PSA

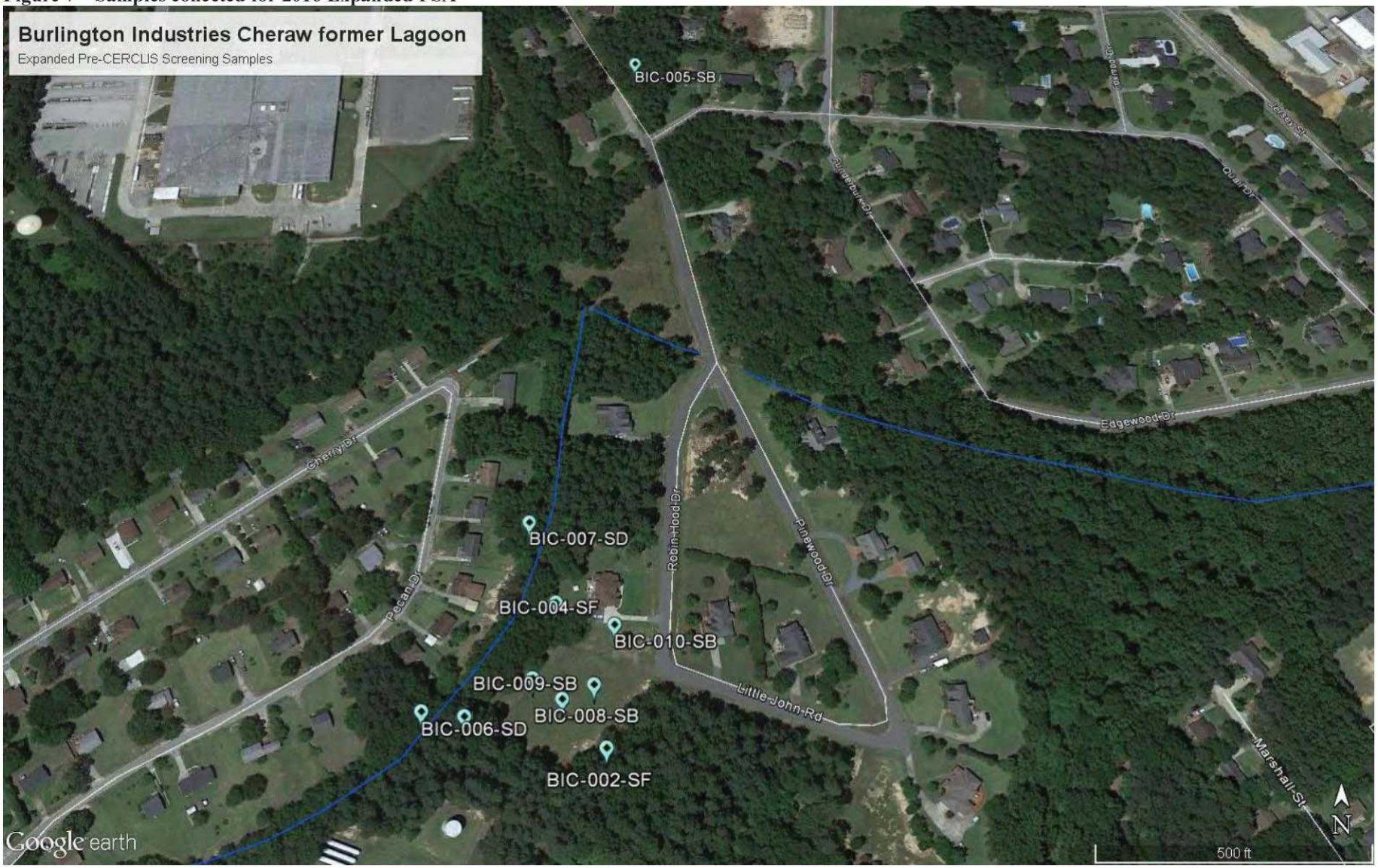


Figure 8 – 2016 Expanded PSA Samples – close-up

Figure 9 : SCDHEC PCB Screening - August 2016

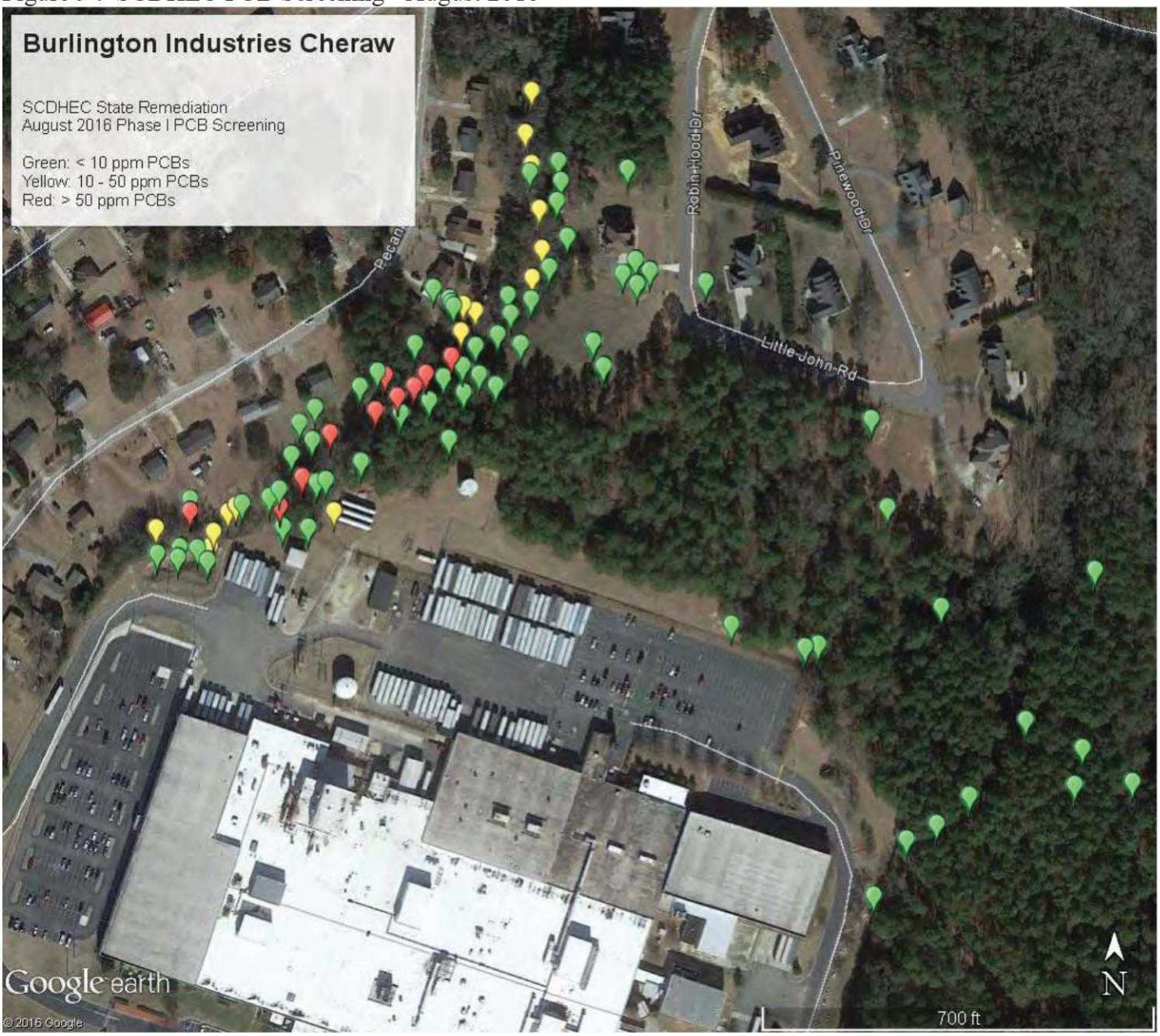


Figure 10: SCDHEC Phase 1 Analysis - August 2016

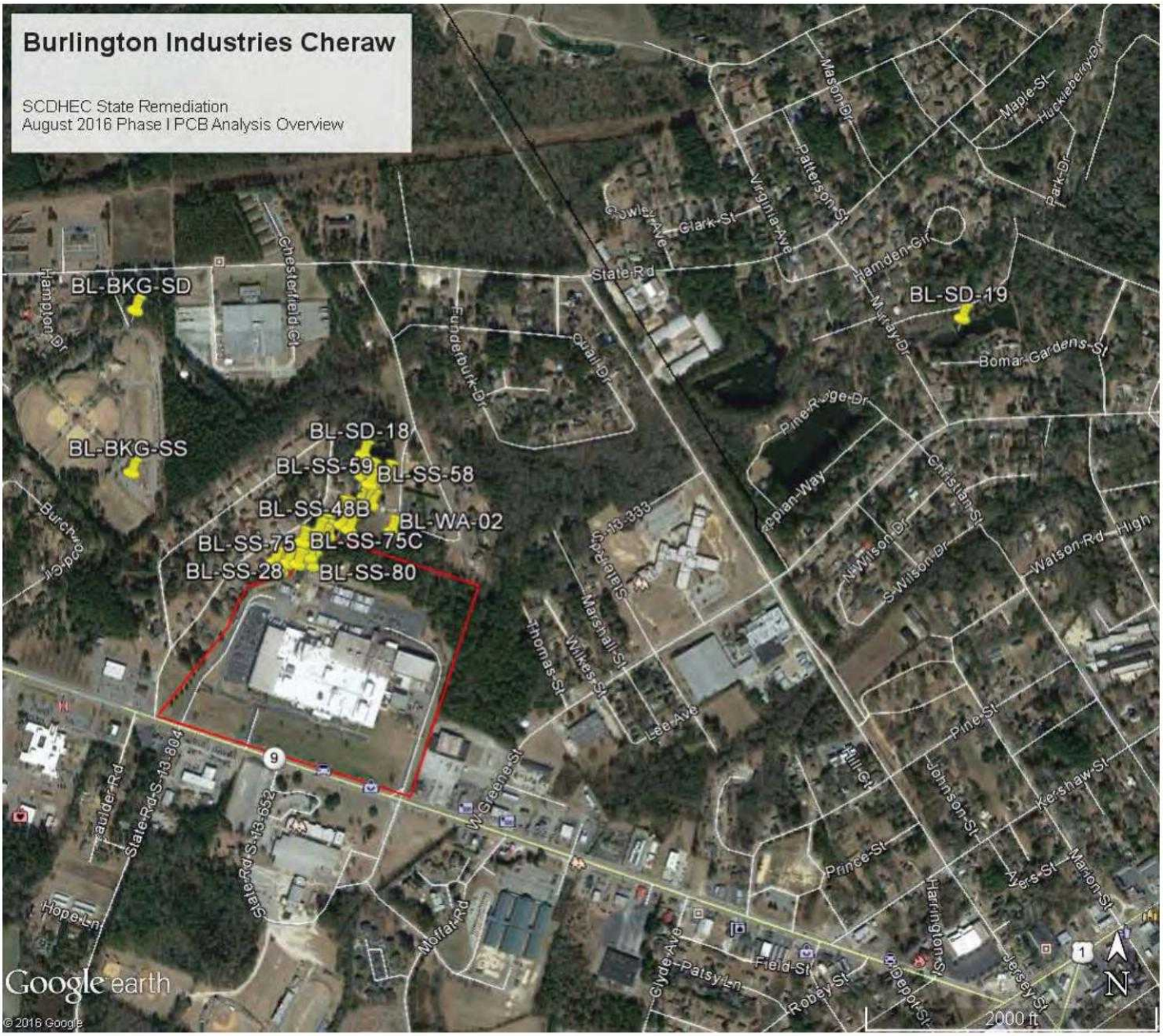
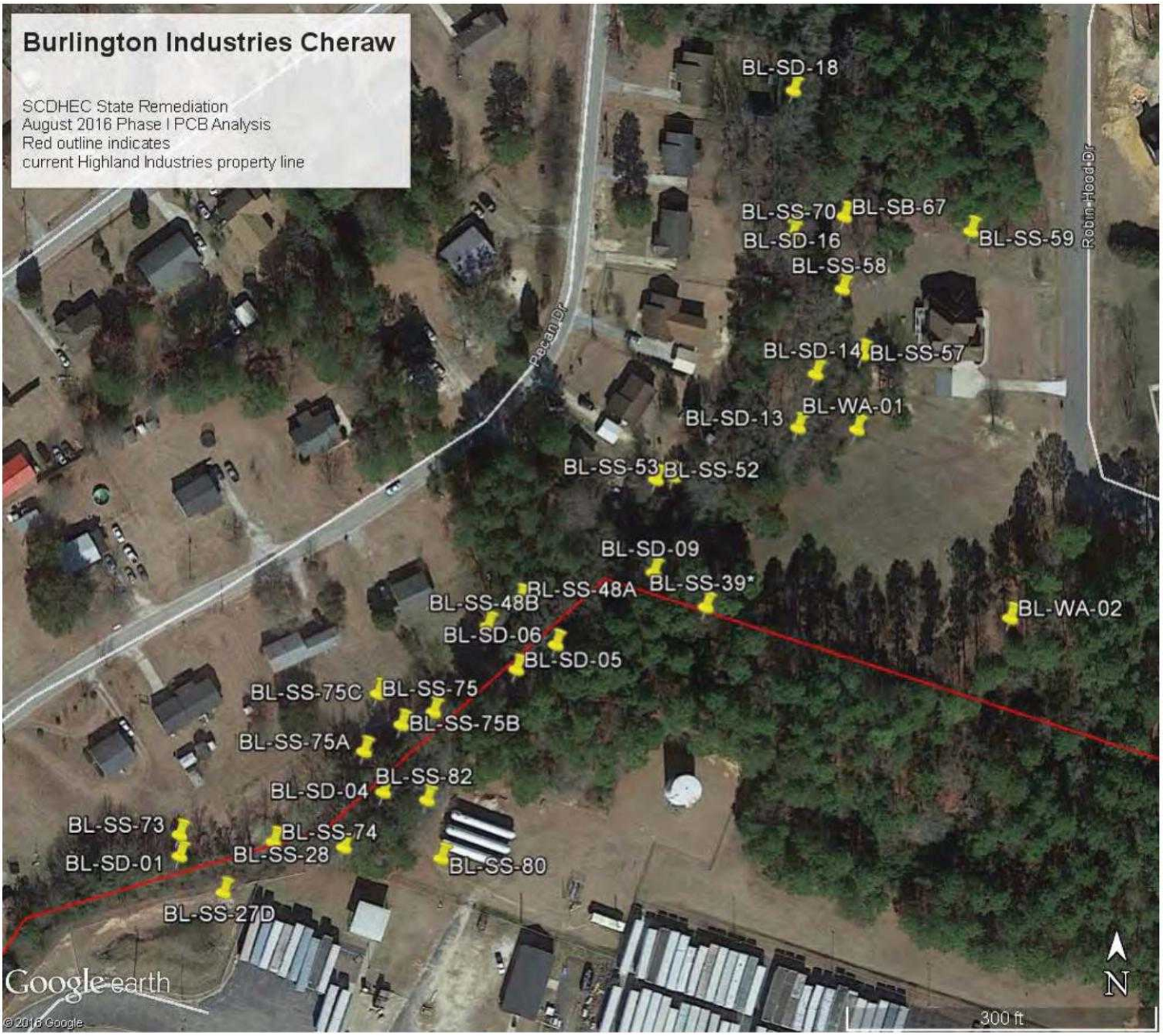


Figure 11: SCDHEC Phase 1 Sampling - August 2016



APPENDIX B: SITE COORDINATE COLLECTION

Site Latitude:	34.695531° N
Site Longitude:	-79.913499° W
Feature Description:	approximate manufacturing facility front door

Collection Date: March 1, 2016

Note: Site Coordinates collected by photo interpretation in Google Earth (estimated accuracy ~20 meters).

APPENDIX C: ATTACHED REFERENCES

58341

1350 Bridgeport Drive, Suite 1
Kernersville, NC 27284 USA
TEL 336-992-7500
FAX 336-992-7482

Highland
TAKATA

RECEIVED
JUN 06 2016
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

June 1, 2016

Via Email (wilkietd@dhec.sc.gov)and Certified Mail

David Wilkie, Environmental Health Manager
Division of Site Assessment, Remediation and Revitalization
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

RE: Burlington Industries, Cheraw, SC former Lagoon Site, Chesterfield County, SC

Dear Mr. Wilkie:

We are in receipt of your letter dated April 25, 2016 addressed to both Highland Industries, Inc. ("Highland") and TK Holdings, Inc. ("TKH") received May 3, 2016. As a matter of clarification we would like to make you aware that neither Highland nor TKH has ever owned or utilized the property you described as the Cheraw Former Lagoon Site (the "Site") identified by the County of Chesterfield as Tax Map Number 258 014 004 019. The Site appears to have been owned by Burlington Industries, Inc. from 1960 until April, 1990. As your information indicates, at present the Site appears to be owned by (b) (6) since August, 2013.

While it is true that Highland purchased the adjacent plant at 650 Chesterfield Highway, Cheraw, SC (the "Plant", Tax Map Number 258 014 004 001) from Burlington Industries, Inc. in 1988, the purchase was an arms' length transaction for consideration and did not involve any assumption of liability for any possible environmental obligations of Burlington Industries, Inc. at the Plant. From the time of the purchase of the Plant to the present day, Highland has handled any hazardous materials by approved methods of collection into containers and proper disposal of such containers off-site to a qualified disposal site. (Highland has records to support).

Since Highland has never in anyway had any connection with the Site since it has owned the Plant, nor has Highland employed production methods that generate any hazardous materials that are not disposed of and transported to approved hazardous waste sites far away from the Plant and the Site, Highland does not acknowledge any responsibility for the presence of historical environmental contamination at the Site.

2a

Please respond with any comments or questions to Cheryl Malloy, Vice President, EHS, TK Holdings Inc. at cheryl.malloy@takata.com, 336.339.2980 (mobile).

Sincerely,

Highland Industries, Inc.

David A. Jackson
President and Chief Operating Officer

TK Holdings Inc.

Cheryl D. Malloy
Vice President, EHS

Report of Analysis

synTerra
INNOVATE
148 River Street, Suite 220
Greenville, SC 29601
Attention: Howard Frank

Project Name: **Burlington Lagoon Site**

Project Number: **1112.11**

Lot Number: **RH24015**

Date Completed: **09/07/2016**

Kelly M. Nance
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
synTerra
Lot Number: RH24015

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Pesticides
Due to high detections for target compounds, samples -002, -009, -012, -013, -014, -015, -016 and -017 were diluted 1000x, 500x, 100x, 100x, 1000x, 1000x, 500x and 100x, respectively. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater may impact surrogate recoveries.

PCBs
Due to high detections for target compounds, samples -001, -002, -003, -004, -005, -006, -008, -009, -010, -013, -014, -015, -016 and -017 were diluted 5000x, 5000x, 2000x, 1000x, 500x, 500x, 2000x, 1000x, 1000x, 1000x, 2000x, 2000x, 5000x and 1000x, respectively. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater may impact surrogate recoveries.

Sample Summary
synTerra
Lot Number: RH24015

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	BL-DS-06	Solid	08/22/2016 1150	08/24/2016
002	BL-DS-09	Solid	08/22/2016 1453	08/24/2016
003	BL-SD-09	Solid	08/22/2016 1448	08/24/2016
004	BL-SD-05	Solid	08/22/2016 1200	08/24/2016
005	BL-DS-13	Solid	08/22/2016 1537	08/24/2016
006	BL-SD-13	Solid	08/22/2016 1532	08/24/2016
007	BL-SD-16	Solid	08/22/2016 1603	08/24/2016
008	BL-SD-01	Solid	08/22/2016 1141	08/24/2016
009	BL-SD-04	Solid	08/22/2016 1226	08/24/2016
010	BL-DS-18	Solid	08/22/2016 1648	08/24/2016
011	BL-DS-14	Solid	08/22/2016 1550	08/24/2016
012	BL-SD-01B	Solid	08/23/2016 0740	08/24/2016
013	BL-DS-01B	Solid	08/23/2016 0746	08/24/2016
014	BL-DS-04-D	Solid	08/22/2016 1235	08/24/2016
015	BL-DS-04	Solid	08/22/2016 1235	08/24/2016
016	BL-SD-06	Solid	08/22/2016 1140	08/24/2016
017	BL-SD-18	Solid	08/22/2016 1643	08/24/2016
018	BL-SD-19	Solid	08/22/2016 1520	08/24/2016
019	BL-DS-19	Solid	08/22/2016 1525	08/24/2016

(19 samples)

Executive Summary
synTerra
Lot Number: RH24015

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	BL-DS-06	Solid	Aroclor 1248	8082A	1900000		ug/kg	11
001	BL-DS-06	Solid	Aroclor 1254	8082A	880000		ug/kg	11
002	BL-DS-09	Solid	bis(2-Ethylhexyl)phthalate	8270D	1100		ug/kg	13
002	BL-DS-09	Solid	Aroclor 1248	8082A	1300000		ug/kg	14
002	BL-DS-09	Solid	Aroclor 1254	8082A	710000		ug/kg	14
002	BL-DS-09	Solid	gamma-BHC (Lindane)	8081B	3700	P	ug/kg	14
002	BL-DS-09	Solid	delta-BHC	8081B	3600	P	ug/kg	14
002	BL-DS-09	Solid	trans-Chlordane	8081B	21000		ug/kg	14
002	BL-DS-09	Solid	4,4'-DDE	8081B	16000		ug/kg	14
002	BL-DS-09	Solid	4,4'-DDT	8081B	16000		ug/kg	14
002	BL-DS-09	Solid	Dieldrin	8081B	37000		ug/kg	14
002	BL-DS-09	Solid	Endrin	8081B	4400		ug/kg	15
002	BL-DS-09	Solid	Endrin aldehyde	8081B	3000		ug/kg	15
002	BL-DS-09	Solid	Endrin ketone	8081B	3100		ug/kg	15
002	BL-DS-09	Solid	Heptachlor	8081B	5200	P	ug/kg	15
002	BL-DS-09	Solid	Heptachlor epoxide	8081B	4200	P	ug/kg	15
002	BL-DS-09	Solid	Aluminum	6010C	9200		mg/kg	15
002	BL-DS-09	Solid	Arsenic	6010C	2.2		mg/kg	15
002	BL-DS-09	Solid	Barium	6010C	36		mg/kg	15
002	BL-DS-09	Solid	Cadmium	6010C	0.25		mg/kg	15
002	BL-DS-09	Solid	Calcium	6010C	600		mg/kg	15
002	BL-DS-09	Solid	Chromium	6010C	31		mg/kg	15
002	BL-DS-09	Solid	Copper	6010C	20		mg/kg	15
002	BL-DS-09	Solid	Iron	6010C	7400		mg/kg	15
002	BL-DS-09	Solid	Lead	6010C	36		mg/kg	15
002	BL-DS-09	Solid	Magnesium	6010C	330		mg/kg	15
002	BL-DS-09	Solid	Manganese	6010C	23		mg/kg	15
002	BL-DS-09	Solid	Nickel	6010C	4.1		mg/kg	15
002	BL-DS-09	Solid	Potassium	6010C	250		mg/kg	15
002	BL-DS-09	Solid	Vanadium	6010C	26		mg/kg	16
002	BL-DS-09	Solid	Zinc	6010C	84		mg/kg	16
003	BL-SD-09	Solid	Aroclor 1248	8082A	340000		ug/kg	17
003	BL-SD-09	Solid	Aroclor 1254	8082A	260000		ug/kg	17
004	BL-SD-05	Solid	Aroclor 1248	8082A	150000		ug/kg	18
004	BL-SD-05	Solid	Aroclor 1254	8082A	150000		ug/kg	18
005	BL-DS-13	Solid	Aroclor 1248	8082A	81000		ug/kg	19
005	BL-DS-13	Solid	Aroclor 1254	8082A	56000		ug/kg	19
006	BL-SD-13	Solid	Aroclor 1248	8082A	110000		ug/kg	20
006	BL-SD-13	Solid	Aroclor 1254	8082A	73000		ug/kg	20
007	BL-SD-16	Solid	Aroclor 1248	8082A	89000		ug/kg	21
007	BL-SD-16	Solid	Aroclor 1254	8082A	70000		ug/kg	21
008	BL-SD-01	Solid	Aroclor 1248	8082A	550000		ug/kg	22
008	BL-SD-01	Solid	Aroclor 1254	8082A	360000		ug/kg	22
009	BL-SD-04	Solid	Benzo(a)anthracene	8270D	4000		ug/kg	23
009	BL-SD-04	Solid	Benzo(a)pyrene	8270D	8600		ug/kg	23

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
009	BL-SD-04	Solid	Benzo(b)fluoranthene	8270D	19000		ug/kg	23
009	BL-SD-04	Solid	Benzo(g,h,i)perylene	8270D	5600		ug/kg	23
009	BL-SD-04	Solid	Benzo(k)fluoranthene	8270D	6600		ug/kg	23
009	BL-SD-04	Solid	Chrysene	8270D	9400		ug/kg	23
009	BL-SD-04	Solid	Fluoranthene	8270D	13000		ug/kg	24
009	BL-SD-04	Solid	Indeno(1,2,3-c,d)pyrene	8270D	5500		ug/kg	24
009	BL-SD-04	Solid	Phenanthrene	8270D	3800		ug/kg	24
009	BL-SD-04	Solid	Pyrene	8270D	11000		ug/kg	24
009	BL-SD-04	Solid	Aroclor 1248	8082A	260000		ug/kg	25
009	BL-SD-04	Solid	Aroclor 1254	8082A	240000		ug/kg	25
009	BL-SD-04	Solid	trans-Chlordane	8081B	6100		ug/kg	25
009	BL-SD-04	Solid	4,4'-DDE	8081B	5600		ug/kg	25
009	BL-SD-04	Solid	4,4'-DDT	8081B	6900		ug/kg	25
009	BL-SD-04	Solid	Dieldrin	8081B	11000		ug/kg	25
009	BL-SD-04	Solid	Endrin	8081B	1500	P	ug/kg	26
009	BL-SD-04	Solid	Endrin aldehyde	8081B	1300		ug/kg	26
009	BL-SD-04	Solid	Endrin ketone	8081B	1500		ug/kg	26
009	BL-SD-04	Solid	Heptachlor epoxide	8081B	930	P	ug/kg	26
009	BL-SD-04	Solid	Aluminum	6010C	8900		mg/kg	26
009	BL-SD-04	Solid	Arsenic	6010C	1.7		mg/kg	26
009	BL-SD-04	Solid	Barium	6010C	44		mg/kg	26
009	BL-SD-04	Solid	Cadmium	6010C	0.33		mg/kg	26
009	BL-SD-04	Solid	Calcium	6010C	1000		mg/kg	26
009	BL-SD-04	Solid	Chromium	6010C	18		mg/kg	26
009	BL-SD-04	Solid	Copper	6010C	28		mg/kg	26
009	BL-SD-04	Solid	Iron	6010C	10000		mg/kg	26
009	BL-SD-04	Solid	Lead	6010C	600		mg/kg	26
009	BL-SD-04	Solid	Magnesium	6010C	910		mg/kg	26
009	BL-SD-04	Solid	Manganese	6010C	51		mg/kg	26
009	BL-SD-04	Solid	Nickel	6010C	6.3		mg/kg	26
009	BL-SD-04	Solid	Potassium	6010C	720		mg/kg	26
009	BL-SD-04	Solid	Vanadium	6010C	32		mg/kg	27
009	BL-SD-04	Solid	Zinc	6010C	160		mg/kg	27
010	BL-DS-18	Solid	Aroclor 1248	8082A	110000		ug/kg	28
010	BL-DS-18	Solid	Aroclor 1254	8082A	82000		ug/kg	28
011	BL-DS-14	Solid	Aroclor 1248	8082A	85000		ug/kg	29
012	BL-SD-01B	Solid	Benzo(b)fluoranthene	8270D	1100		ug/kg	30
012	BL-SD-01B	Solid	Fluoranthene	8270D	810		ug/kg	31
012	BL-SD-01B	Solid	Aroclor 1248	8082A	160000		ug/kg	32
012	BL-SD-01B	Solid	trans-Chlordane	8081B	2400		ug/kg	32
012	BL-SD-01B	Solid	4,4'-DDE	8081B	2100		ug/kg	32
012	BL-SD-01B	Solid	4,4'-DDT	8081B	1700		ug/kg	32
012	BL-SD-01B	Solid	Dieldrin	8081B	4300		ug/kg	32
012	BL-SD-01B	Solid	Endosulfan I	8081B	500	P	ug/kg	32
012	BL-SD-01B	Solid	Endrin	8081B	460	P	ug/kg	33
012	BL-SD-01B	Solid	Endrin aldehyde	8081B	220	P	ug/kg	33
012	BL-SD-01B	Solid	Endrin ketone	8081B	310		ug/kg	33
012	BL-SD-01B	Solid	Heptachlor	8081B	250	P	ug/kg	33

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
012	BL-SD-01B	Solid	Heptachlor epoxide	8081B	340	P	ug/kg	33
012	BL-SD-01B	Solid	Aluminum	6010C	20000		mg/kg	33
012	BL-SD-01B	Solid	Arsenic	6010C	4.8		mg/kg	33
012	BL-SD-01B	Solid	Barium	6010C	58		mg/kg	33
012	BL-SD-01B	Solid	Cadmium	6010C	0.57		mg/kg	33
012	BL-SD-01B	Solid	Calcium	6010C	1500		mg/kg	33
012	BL-SD-01B	Solid	Chromium	6010C	21		mg/kg	33
012	BL-SD-01B	Solid	Cobalt	6010C	3.5		mg/kg	33
012	BL-SD-01B	Solid	Copper	6010C	72		mg/kg	33
012	BL-SD-01B	Solid	Iron	6010C	13000		mg/kg	33
012	BL-SD-01B	Solid	Lead	6010C	21		mg/kg	33
012	BL-SD-01B	Solid	Magnesium	6010C	610		mg/kg	33
012	BL-SD-01B	Solid	Manganese	6010C	47		mg/kg	33
012	BL-SD-01B	Solid	Mercury	7471B	0.14		mg/kg	33
012	BL-SD-01B	Solid	Nickel	6010C	12		mg/kg	33
012	BL-SD-01B	Solid	Potassium	6010C	400		mg/kg	33
012	BL-SD-01B	Solid	Vanadium	6010C	46		mg/kg	34
012	BL-SD-01B	Solid	Zinc	6010C	140		mg/kg	34
013	BL-DS-01B	Solid	bis(2-Ethylhexyl)phthalate	8270D	17000		ug/kg	36
013	BL-DS-01B	Solid	Aroclor 1248	8082A	230000		ug/kg	37
013	BL-DS-01B	Solid	gamma-BHC (Lindane)	8081B	580	P	ug/kg	37
013	BL-DS-01B	Solid	delta-BHC	8081B	360	P	ug/kg	37
013	BL-DS-01B	Solid	trans-Chlordane	8081B	3200		ug/kg	37
013	BL-DS-01B	Solid	4,4'-DDE	8081B	2400		ug/kg	37
013	BL-DS-01B	Solid	4,4'-DDT	8081B	2000		ug/kg	37
013	BL-DS-01B	Solid	Dieldrin	8081B	4600		ug/kg	37
013	BL-DS-01B	Solid	Endosulfan sulfate	8081B	180		ug/kg	38
013	BL-DS-01B	Solid	Endrin	8081B	580	P	ug/kg	38
013	BL-DS-01B	Solid	Endrin aldehyde	8081B	370		ug/kg	38
013	BL-DS-01B	Solid	Endrin ketone	8081B	310		ug/kg	38
013	BL-DS-01B	Solid	Heptachlor	8081B	490	P	ug/kg	38
013	BL-DS-01B	Solid	Heptachlor epoxide	8081B	520	P	ug/kg	38
013	BL-DS-01B	Solid	Aluminum	6010C	12000		mg/kg	38
013	BL-DS-01B	Solid	Arsenic	6010C	4.1		mg/kg	38
013	BL-DS-01B	Solid	Barium	6010C	27		mg/kg	38
013	BL-DS-01B	Solid	Cadmium	6010C	0.29		mg/kg	38
013	BL-DS-01B	Solid	Calcium	6010C	500		mg/kg	38
013	BL-DS-01B	Solid	Chromium	6010C	18		mg/kg	38
013	BL-DS-01B	Solid	Cobalt	6010C	1.6		mg/kg	38
013	BL-DS-01B	Solid	Copper	6010C	34		mg/kg	38
013	BL-DS-01B	Solid	Iron	6010C	12000		mg/kg	38
013	BL-DS-01B	Solid	Lead	6010C	14		mg/kg	38
013	BL-DS-01B	Solid	Magnesium	6010C	360		mg/kg	38
013	BL-DS-01B	Solid	Manganese	6010C	19		mg/kg	38
013	BL-DS-01B	Solid	Nickel	6010C	5.5		mg/kg	38
013	BL-DS-01B	Solid	Vanadium	6010C	36		mg/kg	39
013	BL-DS-01B	Solid	Zinc	6010C	63		mg/kg	39
014	BL-DS-04-D	Solid	Benzo(b)fluoranthene	8270D	3800		ug/kg	40

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
014	BL-DS-04-D	Solid	bis(2-Ethylhexyl)phthalate	8270D	3300		ug/kg	41
014	BL-DS-04-D	Solid	Fluoranthene	8270D	2900		ug/kg	41
014	BL-DS-04-D	Solid	Aroclor 1248	8082A	560000		ug/kg	42
014	BL-DS-04-D	Solid	Aroclor 1254	8082A	450000		ug/kg	42
014	BL-DS-04-D	Solid	trans-Chlordane	8081B	15000		ug/kg	42
014	BL-DS-04-D	Solid	4,4'-DDE	8081B	13000		ug/kg	42
014	BL-DS-04-D	Solid	4,4'-DDT	8081B	16000		ug/kg	42
014	BL-DS-04-D	Solid	Dieldrin	8081B	28000		ug/kg	42
014	BL-DS-04-D	Solid	Endosulfan I	8081B	3300	P	ug/kg	42
014	BL-DS-04-D	Solid	Endrin	8081B	3700	P	ug/kg	43
014	BL-DS-04-D	Solid	Endrin aldehyde	8081B	2700		ug/kg	43
014	BL-DS-04-D	Solid	Endrin ketone	8081B	3200		ug/kg	43
014	BL-DS-04-D	Solid	Heptachlor	8081B	1600	P	ug/kg	43
014	BL-DS-04-D	Solid	Heptachlor epoxide	8081B	2200	P	ug/kg	43
014	BL-DS-04-D	Solid	Aluminum	6010C	7500		mg/kg	43
014	BL-DS-04-D	Solid	Arsenic	6010C	1.2		mg/kg	43
014	BL-DS-04-D	Solid	Barium	6010C	36		mg/kg	43
014	BL-DS-04-D	Solid	Cadmium	6010C	0.34		mg/kg	43
014	BL-DS-04-D	Solid	Calcium	6010C	770		mg/kg	43
014	BL-DS-04-D	Solid	Chromium	6010C	16		mg/kg	43
014	BL-DS-04-D	Solid	Cobalt	6010C	1.4		mg/kg	43
014	BL-DS-04-D	Solid	Copper	6010C	22		mg/kg	43
014	BL-DS-04-D	Solid	Iron	6010C	7000		mg/kg	43
014	BL-DS-04-D	Solid	Lead	6010C	87		mg/kg	43
014	BL-DS-04-D	Solid	Magnesium	6010C	970		mg/kg	43
014	BL-DS-04-D	Solid	Manganese	6010C	50		mg/kg	43
014	BL-DS-04-D	Solid	Nickel	6010C	6.0		mg/kg	43
014	BL-DS-04-D	Solid	Potassium	6010C	840		mg/kg	43
014	BL-DS-04-D	Solid	Vanadium	6010C	30		mg/kg	44
014	BL-DS-04-D	Solid	Zinc	6010C	120		mg/kg	44
015	BL-DS-04	Solid	Benzo(b)fluoranthene	8270D	3700		ug/kg	45
015	BL-DS-04	Solid	bis(2-Ethylhexyl)phthalate	8270D	3400		ug/kg	46
015	BL-DS-04	Solid	Fluoranthene	8270D	3400		ug/kg	46
015	BL-DS-04	Solid	Pyrene	8270D	2600		ug/kg	46
015	BL-DS-04	Solid	Aroclor 1248	8082A	780000		ug/kg	47
015	BL-DS-04	Solid	Aroclor 1254	8082A	730000		ug/kg	47
015	BL-DS-04	Solid	trans-Chlordane	8081B	15000		ug/kg	47
015	BL-DS-04	Solid	4,4'-DDE	8081B	14000		ug/kg	47
015	BL-DS-04	Solid	4,4'-DDT	8081B	15000		ug/kg	47
015	BL-DS-04	Solid	Dieldrin	8081B	28000		ug/kg	47
015	BL-DS-04	Solid	Endosulfan I	8081B	3300	P	ug/kg	47
015	BL-DS-04	Solid	Endrin	8081B	3700	P	ug/kg	48
015	BL-DS-04	Solid	Endrin aldehyde	8081B	2700		ug/kg	48
015	BL-DS-04	Solid	Endrin ketone	8081B	3000		ug/kg	48
015	BL-DS-04	Solid	Heptachlor	8081B	1500	P	ug/kg	48
015	BL-DS-04	Solid	Heptachlor epoxide	8081B	2200	P	ug/kg	48
015	BL-DS-04	Solid	Aluminum	6010C	11000		mg/kg	48
015	BL-DS-04	Solid	Arsenic	6010C	1.5		mg/kg	48

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
015	BL-DS-04	Solid	Barium	6010C	49		mg/kg	48
015	BL-DS-04	Solid	Cadmium	6010C	0.45		mg/kg	48
015	BL-DS-04	Solid	Calcium	6010C	1000		mg/kg	48
015	BL-DS-04	Solid	Chromium	6010C	25		mg/kg	48
015	BL-DS-04	Solid	Cobalt	6010C	1.8		mg/kg	48
015	BL-DS-04	Solid	Copper	6010C	30		mg/kg	48
015	BL-DS-04	Solid	Iron	6010C	8800		mg/kg	48
015	BL-DS-04	Solid	Lead	6010C	61		mg/kg	48
015	BL-DS-04	Solid	Magnesium	6010C	1200		mg/kg	48
015	BL-DS-04	Solid	Manganese	6010C	60		mg/kg	48
015	BL-DS-04	Solid	Mercury	7471B	0.14		mg/kg	48
015	BL-DS-04	Solid	Nickel	6010C	9.4		mg/kg	48
015	BL-DS-04	Solid	Potassium	6010C	950		mg/kg	48
015	BL-DS-04	Solid	Vanadium	6010C	44		mg/kg	49
015	BL-DS-04	Solid	Zinc	6010C	170		mg/kg	49
016	BL-SD-06	Solid	Benzo(a)pyrene	8270D	610		ug/kg	50
016	BL-SD-06	Solid	Benzo(b)fluoranthene	8270D	1600		ug/kg	50
016	BL-SD-06	Solid	Benzo(k)fluoranthene	8270D	610		ug/kg	50
016	BL-SD-06	Solid	Chrysene	8270D	800		ug/kg	50
016	BL-SD-06	Solid	bis(2-Ethylhexyl)phthalate	8270D	2400		ug/kg	51
016	BL-SD-06	Solid	Fluoranthene	8270D	1400		ug/kg	51
016	BL-SD-06	Solid	Pyrene	8270D	920		ug/kg	51
016	BL-SD-06	Solid	Aroclor 1248	8082A	1000000		ug/kg	52
016	BL-SD-06	Solid	Aroclor 1254	8082A	660000		ug/kg	52
016	BL-SD-06	Solid	gamma-BHC (Lindane)	8081B	1200	P	ug/kg	52
016	BL-SD-06	Solid	delta-BHC	8081B	1500	P	ug/kg	52
016	BL-SD-06	Solid	trans-Chlordane	8081B	17000		ug/kg	52
016	BL-SD-06	Solid	4,4'-DDE	8081B	14000		ug/kg	52
016	BL-SD-06	Solid	4,4'-DDT	8081B	14000		ug/kg	52
016	BL-SD-06	Solid	Dieldrin	8081B	27000		ug/kg	52
016	BL-SD-06	Solid	Endosulfan sulfate	8081B	1300		ug/kg	53
016	BL-SD-06	Solid	Endrin	8081B	3500	P	ug/kg	53
016	BL-SD-06	Solid	Endrin aldehyde	8081B	2600		ug/kg	53
016	BL-SD-06	Solid	Endrin ketone	8081B	2400		ug/kg	53
016	BL-SD-06	Solid	Heptachlor	8081B	2400	P	ug/kg	53
016	BL-SD-06	Solid	Heptachlor epoxide	8081B	2500	P	ug/kg	53
016	BL-SD-06	Solid	Aluminum	6010C	14000		mg/kg	53
016	BL-SD-06	Solid	Arsenic	6010C	4.1		mg/kg	53
016	BL-SD-06	Solid	Barium	6010C	49		mg/kg	53
016	BL-SD-06	Solid	Cadmium	6010C	0.29		mg/kg	53
016	BL-SD-06	Solid	Calcium	6010C	1000		mg/kg	53
016	BL-SD-06	Solid	Chromium	6010C	56		mg/kg	53
016	BL-SD-06	Solid	Cobalt	6010C	1.8		mg/kg	53
016	BL-SD-06	Solid	Copper	6010C	33		mg/kg	53
016	BL-SD-06	Solid	Iron	6010C	13000		mg/kg	53
016	BL-SD-06	Solid	Lead	6010C	82		mg/kg	53
016	BL-SD-06	Solid	Magnesium	6010C	580		mg/kg	53
016	BL-SD-06	Solid	Manganese	6010C	42		mg/kg	53

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
016	BL-SD-06	Solid	Nickel	6010C	7.1		mg/kg	53
016	BL-SD-06	Solid	Potassium	6010C	350		mg/kg	53
016	BL-SD-06	Solid	Vanadium	6010C	46		mg/kg	54
016	BL-SD-06	Solid	Zinc	6010C	140		mg/kg	54
017	BL-SD-18	Solid	Benzo(b)fluoranthene	8270D	1400		ug/kg	55
017	BL-SD-18	Solid	Chrysene	8270D	610		ug/kg	55
017	BL-SD-18	Solid	bis(2-Ethylhexyl)phthalate	8270D	660		ug/kg	56
017	BL-SD-18	Solid	Fluoranthene	8270D	850		ug/kg	56
017	BL-SD-18	Solid	Pyrene	8270D	700		ug/kg	56
017	BL-SD-18	Solid	Aroclor 1248	8082A	250000		ug/kg	57
017	BL-SD-18	Solid	delta-BHC	8081B	220	P	ug/kg	57
017	BL-SD-18	Solid	trans-Chlordane	8081B	4500		ug/kg	57
017	BL-SD-18	Solid	4,4'-DDE	8081B	3500		ug/kg	57
017	BL-SD-18	Solid	4,4'-DDT	8081B	3900		ug/kg	57
017	BL-SD-18	Solid	Dieldrin	8081B	7300		ug/kg	57
017	BL-SD-18	Solid	Endosulfan sulfate	8081B	310	P	ug/kg	58
017	BL-SD-18	Solid	Endrin	8081B	970	P	ug/kg	58
017	BL-SD-18	Solid	Endrin aldehyde	8081B	740		ug/kg	58
017	BL-SD-18	Solid	Endrin ketone	8081B	740		ug/kg	58
017	BL-SD-18	Solid	Heptachlor	8081B	380	P	ug/kg	58
017	BL-SD-18	Solid	Heptachlor epoxide	8081B	580	P	ug/kg	58
017	BL-SD-18	Solid	Aluminum	6010C	9700		mg/kg	58
017	BL-SD-18	Solid	Arsenic	6010C	1.4		mg/kg	58
017	BL-SD-18	Solid	Barium	6010C	46		mg/kg	58
017	BL-SD-18	Solid	Cadmium	6010C	0.61		mg/kg	58
017	BL-SD-18	Solid	Calcium	6010C	1000		mg/kg	58
017	BL-SD-18	Solid	Chromium	6010C	20		mg/kg	58
017	BL-SD-18	Solid	Copper	6010C	18		mg/kg	58
017	BL-SD-18	Solid	Iron	6010C	5500		mg/kg	58
017	BL-SD-18	Solid	Lead	6010C	33		mg/kg	58
017	BL-SD-18	Solid	Magnesium	6010C	410		mg/kg	58
017	BL-SD-18	Solid	Manganese	6010C	32		mg/kg	58
017	BL-SD-18	Solid	Nickel	6010C	5.1		mg/kg	58
017	BL-SD-18	Solid	Potassium	6010C	340		mg/kg	58
017	BL-SD-18	Solid	Vanadium	6010C	26		mg/kg	59
017	BL-SD-18	Solid	Zinc	6010C	110		mg/kg	59
018	BL-SD-19	Solid	Aroclor 1248	8082A	100		ug/kg	62
018	BL-SD-19	Solid	trans-Chlordane	8081B	1.7	P	ug/kg	62
018	BL-SD-19	Solid	4,4'-DDE	8081B	6.7		ug/kg	62
018	BL-SD-19	Solid	4,4'-DDT	8081B	2.2	P	ug/kg	62
018	BL-SD-19	Solid	Dieldrin	8081B	3.5		ug/kg	62
018	BL-SD-19	Solid	Aluminum	6010C	5000		mg/kg	63
018	BL-SD-19	Solid	Barium	6010C	25		mg/kg	63
018	BL-SD-19	Solid	Chromium	6010C	7.0		mg/kg	63
018	BL-SD-19	Solid	Copper	6010C	3.1		mg/kg	63
018	BL-SD-19	Solid	Iron	6010C	2600		mg/kg	63
018	BL-SD-19	Solid	Lead	6010C	11		mg/kg	63
018	BL-SD-19	Solid	Manganese	6010C	17		mg/kg	63

Executive Summary (Continued)

Lot Number: RH24015

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
018	BL-SD-19	Solid	Nickel	6010C	1.8		mg/kg	63
018	BL-SD-19	Solid	Vanadium	6010C	9.5		mg/kg	64
018	BL-SD-19	Solid	Zinc	6010C	13		mg/kg	64
019	BL-DS-19	Solid	Aroclor 1248	8082A	67		ug/kg	67
019	BL-DS-19	Solid	4,4'-DDT	8081B	1.2	P	ug/kg	67
019	BL-DS-19	Solid	Dieldrin	8081B	1.8	P	ug/kg	67
019	BL-DS-19	Solid	Aluminum	6010C	7000		mg/kg	68
019	BL-DS-19	Solid	Arsenic	6010C	1.1		mg/kg	68
019	BL-DS-19	Solid	Barium	6010C	51		mg/kg	68
019	BL-DS-19	Solid	Chromium	6010C	7.8		mg/kg	68
019	BL-DS-19	Solid	Cobalt	6010C	1.2		mg/kg	68
019	BL-DS-19	Solid	Copper	6010C	3.3		mg/kg	68
019	BL-DS-19	Solid	Iron	6010C	4400		mg/kg	68
019	BL-DS-19	Solid	Lead	6010C	7.4		mg/kg	68
019	BL-DS-19	Solid	Manganese	6010C	32		mg/kg	68
019	BL-DS-19	Solid	Nickel	6010C	2.1		mg/kg	68
019	BL-DS-19	Solid	Vanadium	6010C	13		mg/kg	69
019	BL-DS-19	Solid	Zinc	6010C	8.4		mg/kg	69

(303 detections)

Client: **synTerra**	Laboratory ID: **RH24015-001**
Description: **BL-DS-06**	Matrix: **Solid**
Date Sampled: **08/22/2016 1150**	% Solids: **64.7** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	5000	08/31/2016 2218	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		75000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		75000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		75000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		75000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**1900000**		**75000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**880000**		**75000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		75000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	774	41-132
Tetrachloro-m-xylene	N	198	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-002**
Description: **BL-DS-09**	Matrix: **Solid**
Date Sampled: **08/22/2016 1453**	% Solids: **64.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1802	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.78	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1845	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		510	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		510	ug/kg	1
Acetophenone	98-86-2	8270D	ND		510	ug/kg	1
Anthracene	120-12-7	8270D	ND		510	ug/kg	1
Atrazine	1912-24-9	8270D	ND		510	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1300	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		510	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		510	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		510	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		510	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		510	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		510	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		510	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		510	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1300	ug/kg	1
Carbazole	86-74-8	8270D	ND		510	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		510	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		510	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		510	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		510	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		510	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		510	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		510	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		510	ug/kg	1
Chrysene	218-01-9	8270D	ND		510	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		510	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		510	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		510	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		510	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1300	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		510	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		510	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-002**
Description: **BL-DS-09**	Matrix: **Solid**
Date Sampled: **08/22/2016 1453**	% Solids: **64.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1845	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		510	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		510	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1300	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		510	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		510	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270D**	**1100**		**510**	**ug/kg**	**1**
Fluoranthene	206-44-0	8270D	ND		510	ug/kg	1
Fluorene	86-73-7	8270D	ND		510	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		510	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		510	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1300	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		510	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		510	ug/kg	1
Isophorone	78-59-1	8270D	ND		510	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		510	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		510	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1000	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		510	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		510	ug/kg	1
Naphthalene	91-20-3	8270D	ND		510	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		510	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		510	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		510	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		510	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		510	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1300	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1300	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		510	ug/kg	1
Phenol	108-95-2	8270D	ND		510	ug/kg	1
Pyrene	129-00-0	8270D	ND		510	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		510	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		510	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		77	30-117
2-Fluorobiphenyl		72	33-102
2-Fluorophenol		67	28-104
Nitrobenzene-d5		76	22-109
Phenol-d5		74	27-103
Terphenyl-d14		81	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	5000	08/31/2016 2231	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		76000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		76000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		76000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		76000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**1300000**		**76000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**710000**		**76000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		76000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	824	41-132
Tetrachloro-m-xylene	N	217	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	08/31/2016 1808	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1500	ug/kg	1
gamma-BHC (Lindane)	**58-89-9**	**8081B**	**3700**	**P**	**1500**	**ug/kg**	**1**
alpha-BHC	319-84-6	8081B	ND		1500	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1500	ug/kg	1
delta-BHC	**319-86-8**	**8081B**	**3600**	**P**	**1500**	**ug/kg**	**1**
Chlordane	57-74-9	8081B	ND		3000	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1500	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**21000**		**1500**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		1500	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**16000**		**1500**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**16000**		**1500**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**37000**		**1500**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1500	ug/kg	1

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E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-002**
Description: **BL-DS-09**	Matrix: **Solid**
Date Sampled: **08/22/2016 1453**	% Solids: **64.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	08/31/2016 1808	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		1500	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1500	ug/kg	1
Endrin	**72-20-8**	**8081B**	**4400**		**1500**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**3000**		**1500**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**3100**		**1500**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**5200**	**P**	**1500**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**4200**	**P**	**1500**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		6100	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		15000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1519	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1546	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**9200**		**17**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		0.86	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**2.2**		**0.64**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**36**		**1.1**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.21	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.25**		**0.21**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**600**		**210**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**31**		**0.43**	**mg/kg**	**1**
Cobalt	7440-48-4	6010C	ND		1.1	mg/kg	1
Copper	**7440-50-8**	**6010C**	**20**		**0.43**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**7400**		**4.3**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**36**		**0.43**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**330**		**210**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**23**		**0.64**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.12	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**4.1**		**1.7**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**250**		**210**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.86	mg/kg	1
Silver	7440-22-4	6010C	ND		0.43	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-002**
Description: **BL-DS-09**	Matrix: **Solid**
Date Sampled: **08/22/2016 1453**	% Solids: **64.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1519	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1546	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		210	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.1	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**26**		**2.1**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**84**		**2.1**	**mg/kg**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-003**
Description: **BL-SD-09**	Matrix: **Solid**
Date Sampled: **08/22/2016 1448**	% Solids: **61.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	2000	08/31/2016 2138	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		31000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		31000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		31000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		31000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**340000**		**31000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**260000**		**31000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		31000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	389	41-132
Tetrachloro-m-xylene		103	35-106

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-004**
Description: **BL-SD-05**	Matrix: **Solid**
Date Sampled: **08/22/2016 1200**	% Solids: **76.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	08/31/2016 2125	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		13000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		13000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		13000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		13000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**150000**		**13000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**150000**		**13000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		13000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	380	41-132
Tetrachloro-m-xylene	N	127	35-106

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-005**
Description: **BL-DS-13**	Matrix: **Solid**
Date Sampled: **08/22/2016 1537**	% Solids: **66.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/01/2016 0110	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		7300	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		7300	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		7300	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		7300	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**81000**		**7300**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**56000**		**7300**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		7300	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		129	41-132
Tetrachloro-m-xylene	N	126	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-006**
Description: **BL-SD-13**	Matrix: **Solid**
Date Sampled: **08/22/2016 1532**	% Solids: **58.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	08/31/2016 2032	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		8200	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		8200	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		8200	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		8200	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**110000**		**8200**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**73000**		**8200**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		8200	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	239	41-132
Tetrachloro-m-xylene	N	195	35-106

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-007**
Description: **BL-SD-16**	Matrix: **Solid**
Date Sampled: **08/22/2016 1603**	% Solids: **74.1** **08/29/2016 2201**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/01/2016 0124	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		6700	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		6700	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		6700	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		6700	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**89000**		**6700**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**70000**		**6700**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		6700	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		112	41-132
Tetrachloro-m-xylene		79	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-008**
Description: **BL-SD-01**	Matrix: **Solid**
Date Sampled: **08/22/2016 1141**	% Solids: **48.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	2000	09/01/2016 0137	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		40000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		40000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		40000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		40000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**550000**		**40000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**360000**		**40000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		40000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	204	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-009**
Description: **BL-SD-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1226**	% Solids: **53.9** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1803	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.93	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	08/30/2016 1910	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		3000	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		3000	ug/kg	1
Acetophenone	98-86-2	8270D	ND		3000	ug/kg	1
Anthracene	120-12-7	8270D	ND		3000	ug/kg	1
Atrazine	1912-24-9	8270D	ND		3000	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		7600	ug/kg	1
Benzo(a)anthracene	**56-55-3**	**8270D**	**4000**		**3000**	**ug/kg**	**1**
Benzo(a)pyrene	**50-32-8**	**8270D**	**8600**		**3000**	**ug/kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270D**	**19000**		**3000**	**ug/kg**	**1**
Benzo(g,h,i)perylene	**191-24-2**	**8270D**	**5600**		**3000**	**ug/kg**	**1**
Benzo(k)fluoranthene	**207-08-9**	**8270D**	**6600**		**3000**	**ug/kg**	**1**
1,1'-Biphenyl	92-52-4	8270D	ND		3000	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		3000	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		3000	ug/kg	1
Caprolactam	105-60-2	8270D	ND		7600	ug/kg	1
Carbazole	86-74-8	8270D	ND		3000	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		3000	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		3000	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		3000	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		3000	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		3000	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		3000	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		3000	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		3000	ug/kg	1
Chrysene	**218-01-9**	**8270D**	**9400**		**3000**	**ug/kg**	**1**
Di-n-butyl phthalate	84-74-2	8270D	ND		3000	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		3000	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		3000	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		3000	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		7600	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		3000	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		3000	ug/kg	1

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-009**
Description: **BL-SD-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1226**	% Solids: **53.9** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	08/30/2016 1910	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		3000	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		3000	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		7600	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		7600	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		3000	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		3000	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		3000	ug/kg	1
Fluoranthene	**206-44-0**	**8270D**	**13000**		**3000**	**ug/kg**	**1**
Fluorene	86-73-7	8270D	ND		3000	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		3000	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		3000	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		7600	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		3000	ug/kg	1
Indeno(1,2,3-c,d)pyrene	**193-39-5**	**8270D**	**5500**		**3000**	**ug/kg**	**1**
Isophorone	78-59-1	8270D	ND		3000	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		3000	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		3000	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		6100	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		3000	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		3000	ug/kg	1
Naphthalene	91-20-3	8270D	ND		3000	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		3000	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		3000	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		3000	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		3000	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		3000	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		7600	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		7600	ug/kg	1
Phenanthrene	**85-01-8**	**8270D**	**3800**		**3000**	**ug/kg**	**1**
Phenol	108-95-2	8270D	ND		3000	ug/kg	1
Pyrene	**129-00-0**	**8270D**	**11000**		**3000**	**ug/kg**	**1**
2,4,5-Trichlorophenol	95-95-4	8270D	ND		3000	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		3000	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		72	30-117
2-Fluorobiphenyl		68	33-102
2-Fluorophenol		65	28-104
Nitrobenzene-d5		75	22-109
Phenol-d5		71	27-103
Terphenyl-d14		75	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	08/31/2016 2045	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		18000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		18000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		18000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		18000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**260000**		**18000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**240000**		**18000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		18000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	413	41-132
Tetrachloro-m-xylene		76	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	500	09/01/2016 1040	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		900	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		900	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		900	ug/kg	1
beta-BHC	319-85-7	8081B	ND		900	ug/kg	1
delta-BHC	319-86-8	8081B	ND		900	ug/kg	1
Chlordane	57-74-9	8081B	ND		1800	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		900	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**6100**		**900**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		900	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**5600**		**900**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**6900**		**900**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**11000**		**900**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		900	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-009**
Description: **BL-SD-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1226**	% Solids: **53.9** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	500	09/01/2016 1040	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		900	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		900	ug/kg	1
Endrin	**72-20-8**	**8081B**	**1500**	**P**	**900**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**1300**		**900**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**1500**		**900**	**ug/kg**	**1**
Heptachlor	76-44-8	8081B	ND		900	ug/kg	1
Heptachlor epoxide	**1024-57-3**	**8081B**	**930**	**P**	**900**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		3600	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		9000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	107	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1521	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1551	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**8900**		**26**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		1.3	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**1.7**		**0.96**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**44**		**1.7**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.32	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.33**		**0.32**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**1000**		**320**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**18**		**0.64**	**mg/kg**	**1**
Cobalt	7440-48-4	6010C	ND		1.7	mg/kg	1
Copper	**7440-50-8**	**6010C**	**28**		**0.64**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**10000**		**6.4**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**600**		**0.64**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**910**		**320**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**51**		**0.96**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.14	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**6.3**		**2.6**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**720**		**320**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.3	mg/kg	1
Silver	7440-22-4	6010C	ND		0.64	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-009**
Description: **BL-SD-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1226**	% Solids: **53.9** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1521	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1551	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		320	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.2	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**32**		**3.2**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**160**		**3.2**	**mg/kg**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-010**
Description: **BL-DS-18**	Matrix: **Solid**
Date Sampled: **08/22/2016 1648**	% Solids: **70.9** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	09/01/2016 0150	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		14000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		14000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		14000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		14000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**110000**		**14000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**82000**		**14000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		14000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	136	41-132
Tetrachloro-m-xylene		44	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-011**
Description: **BL-DS-14**	Matrix: **Solid**
Date Sampled: **08/22/2016 1550**	% Solids: **69.8** **08/24/2016 2325**
Date Received: **08/24/2016**	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/01/2016 0203	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		7100	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		7100	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		7100	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		7100	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**85000**		**7100**	**ug/kg**	**1**
Aroclor 1254	11097-69-1	8082A	ND		7100	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		7100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		130	41-132
Tetrachloro-m-xylene		106	35-106

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-012**
Description: **BL-SD-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0740**	% Solids: **53.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1804	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.94	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1430	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		610	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		610	ug/kg	1
Acetophenone	98-86-2	8270D	ND		610	ug/kg	1
Anthracene	120-12-7	8270D	ND		610	ug/kg	1
Atrazine	1912-24-9	8270D	ND		610	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1500	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		610	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		610	ug/kg	1
Benzo(b)fluoranthene	**205-99-2**	**8270D**	**1100**		**610**	**ug/kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270D	ND		610	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		610	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		610	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		610	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		610	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1500	ug/kg	1
Carbazole	86-74-8	8270D	ND		610	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		610	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		610	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		610	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		610	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		610	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		610	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		610	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		610	ug/kg	1
Chrysene	218-01-9	8270D	ND		610	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		610	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		610	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		610	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		610	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1500	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		610	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		610	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-012**
Description: **BL-SD-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0740**	% Solids: **53.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1430	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		610	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		610	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1500	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1500	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		610	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		610	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		610	ug/kg	1
Fluoranthene	**206-44-0**	**8270D**	**810**		**610**	**ug/kg**	**1**
Fluorene	86-73-7	8270D	ND		610	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		610	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		610	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1500	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		610	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		610	ug/kg	1
Isophorone	78-59-1	8270D	ND		610	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		610	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		610	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1200	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		610	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		610	ug/kg	1
Naphthalene	91-20-3	8270D	ND		610	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		610	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		610	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		610	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		610	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		610	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1500	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1500	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		610	ug/kg	1
Phenol	108-95-2	8270D	ND		610	ug/kg	1
Pyrene	129-00-0	8270D	ND		610	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		610	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		610	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		79	30-117
2-Fluorobiphenyl		69	33-102
2-Fluorophenol		67	28-104
Nitrobenzene-d5		69	22-109
Phenol-d5		71	27-103
Terphenyl-d14		73	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	08/31/2016 2019	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		9200	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		9200	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		9200	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		9200	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**160000**		**9200**	**ug/kg**	**1**
Aroclor 1254	11097-69-1	8082A	ND		9200	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		9200	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		124	41-132
Tetrachloro-m-xylene		104	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	100	09/01/2016 1055	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		180	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		180	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		180	ug/kg	1
beta-BHC	319-85-7	8081B	ND		180	ug/kg	1
delta-BHC	319-86-8	8081B	ND		180	ug/kg	1
Chlordane	57-74-9	8081B	ND		370	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		180	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**2400**		**180**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		180	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**2100**		**180**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**1700**		**180**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**4300**		**180**	**ug/kg**	**1**
Endosulfan I	**959-98-8**	**8081B**	**500**	**P**	**180**	**ug/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-012**
Description: **BL-SD-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0740**	% Solids: **53.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	100	09/01/2016 1055	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		180	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		180	ug/kg	1
Endrin	**72-20-8**	**8081B**	**460**	**P**	**180**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**220**	**P**	**180**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**310**		**180**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**250**	**P**	**180**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**340**	**P**	**180**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		730	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1800	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	134	57-110
Tetrachloro-m-xylene		78	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1524	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1602	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**20000**		**30**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		1.5	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**4.8**		**1.1**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**58**		**2.0**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.38	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.57**		**0.38**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**1500**		**380**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**21**		**0.75**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**3.5**		**2.0**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**72**		**0.75**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**13000**		**7.5**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**21**		**0.75**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**610**		**380**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**47**		**1.1**	**mg/kg**	**1**
Mercury	**7439-97-6**	**7471B**	**0.14**		**0.14**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**12**		**3.0**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**400**		**380**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.5	mg/kg	1
Silver	7440-22-4	6010C	ND		0.75	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-012**
Description: **BL-SD-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0740**	% Solids: **53.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1524	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1602	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		380	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.8	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**46**		**3.8**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**140**		**3.8**	**mg/kg**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**
Description: **BL-DS-01B**
Date Sampled: **08/23/2016 0746**
Date Received: **08/24/2016**

Laboratory ID: **RH24015-013**
Matrix: **Solid**
% Solids: **80.8** **08/24/2016 2325**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1805	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.62	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	08/30/2016 1959	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		2000	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		2000	ug/kg	1
Acetophenone	98-86-2	8270D	ND		2000	ug/kg	1
Anthracene	120-12-7	8270D	ND		2000	ug/kg	1
Atrazine	1912-24-9	8270D	ND		2000	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		5100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		2000	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		2000	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		2000	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		2000	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		2000	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		2000	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		2000	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		2000	ug/kg	1
Caprolactam	105-60-2	8270D	ND		5100	ug/kg	1
Carbazole	86-74-8	8270D	ND		2000	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		2000	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		2000	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		2000	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		2000	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		2000	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		2000	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		2000	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		2000	ug/kg	1
Chrysene	218-01-9	8270D	ND		2000	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		2000	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		2000	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		2000	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		2000	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		5100	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		2000	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		2000	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-013**
Description: **BL-DS-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0746**	% Solids: **80.8** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	08/30/2016 1959	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		2000	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		2000	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		5100	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		5100	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2000	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2000	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270D**	**17000**		**2000**	**ug/kg**	**1**
Fluoranthene	206-44-0	8270D	ND		2000	ug/kg	1
Fluorene	86-73-7	8270D	ND		2000	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		2000	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		2000	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		5100	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		2000	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		2000	ug/kg	1
Isophorone	78-59-1	8270D	ND		2000	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		2000	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		2000	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		4100	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		2000	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		2000	ug/kg	1
Naphthalene	91-20-3	8270D	ND		2000	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		2000	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		2000	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		2000	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		2000	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		2000	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		5100	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		5100	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		2000	ug/kg	1
Phenol	108-95-2	8270D	ND		2000	ug/kg	1
Pyrene	129-00-0	8270D	ND		2000	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		2000	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		2000	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		71	30-117
2-Fluorobiphenyl		78	33-102
2-Fluorophenol		67	28-104
Nitrobenzene-d5		79	22-109
Phenol-d5		76	27-103
Terphenyl-d14		81	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	08/31/2016 2058	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		12000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		12000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		12000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		12000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**230000**		**12000**	**ug/kg**	**1**
Aroclor 1254	11097-69-1	8082A	ND		12000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		12000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	268	41-132
Tetrachloro-m-xylene		57	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	100	08/31/2016 1610	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		120	ug/kg	1
gamma-BHC (Lindane)	**58-89-9**	**8081B**	**580**	**P**	**120**	**ug/kg**	**1**
alpha-BHC	319-84-6	8081B	ND		120	ug/kg	1
beta-BHC	319-85-7	8081B	ND		120	ug/kg	1
delta-BHC	**319-86-8**	**8081B**	**360**	**P**	**120**	**ug/kg**	**1**
Chlordane	57-74-9	8081B	ND		240	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		120	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**3200**		**120**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		120	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**2400**		**120**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**2000**		**120**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**4600**		**120**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		120	ug/kg	1

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-013**
Description: **BL-DS-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0746**	% Solids: **80.8** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	100	08/31/2016 1610	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		120	ug/kg	1
Endosulfan sulfate	**1031-07-8**	**8081B**	**180**		**120**	**ug/kg**	**1**
Endrin	**72-20-8**	**8081B**	**580**	**P**	**120**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**370**		**120**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**310**		**120**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**490**	**P**	**120**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**520**	**P**	**120**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		480	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1200	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	197	57-110
Tetrachloro-m-xylene		90	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1526	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1606	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**12000**		**14**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		0.72	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**4.1**		**0.54**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**27**		**0.94**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.18	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.29**		**0.18**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**500**		**180**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**18**		**0.36**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**1.6**		**0.94**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**34**		**0.36**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**12000**		**3.6**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**14**		**0.36**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**360**		**180**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**19**		**0.54**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.089	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**5.5**		**1.4**	**mg/kg**	**1**
Potassium	7440-09-7	6010C	ND		180	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.72	mg/kg	1
Silver	7440-22-4	6010C	ND		0.36	mg/kg	1

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ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-013**
Description: **BL-DS-01B**	Matrix: **Solid**
Date Sampled: **08/23/2016 0746**	% Solids: **80.8** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1526	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1606	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		180	mg/kg	1
Thallium	7440-28-0	6010C	ND		1.8	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**36**		**1.8**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**63**		**1.8**	**mg/kg**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-014**
Description: **BL-DS-04-D**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.1** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1809	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.81	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	08/30/2016 2023	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		2600	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		2600	ug/kg	1
Acetophenone	98-86-2	8270D	ND		2600	ug/kg	1
Anthracene	120-12-7	8270D	ND		2600	ug/kg	1
Atrazine	1912-24-9	8270D	ND		2600	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		6600	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		2600	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		2600	ug/kg	1
Benzo(b)fluoranthene	**205-99-2**	**8270D**	**3800**		**2600**	**ug/kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270D	ND		2600	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		2600	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		2600	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		2600	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		2600	ug/kg	1
Caprolactam	105-60-2	8270D	ND		6600	ug/kg	1
Carbazole	86-74-8	8270D	ND		2600	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		2600	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		2600	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		2600	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		2600	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		2600	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		2600	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		2600	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		2600	ug/kg	1
Chrysene	218-01-9	8270D	ND		2600	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		2600	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		2600	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		2600	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		2600	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		6600	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		2600	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		2600	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-014**
Description: **BL-DS-04-D**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.1** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	08/30/2016 2023	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		2600	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		2600	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		6600	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		6600	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2600	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2600	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270D**	**3300**		**2600**	**ug/kg**	**1**
Fluoranthene	**206-44-0**	**8270D**	**2900**		**2600**	**ug/kg**	**1**
Fluorene	86-73-7	8270D	ND		2600	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		2600	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		2600	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		6600	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		2600	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		2600	ug/kg	1
Isophorone	78-59-1	8270D	ND		2600	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		2600	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		2600	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		5300	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		2600	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		2600	ug/kg	1
Naphthalene	91-20-3	8270D	ND		2600	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		2600	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		2600	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		2600	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		2600	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		2600	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		6600	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		6600	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		2600	ug/kg	1
Phenol	108-95-2	8270D	ND		2600	ug/kg	1
Pyrene	129-00-0	8270D	ND		2600	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		2600	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		2600	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		73	30-117
2-Fluorobiphenyl		69	33-102
2-Fluorophenol		63	28-104
Nitrobenzene-d5		77	22-109
Phenol-d5		73	27-103
Terphenyl-d14		76	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	2000	08/31/2016 2152	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		32000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		32000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		32000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		32000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**560000**		**32000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**450000**		**32000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		32000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	613	41-132
Tetrachloro-m-xylene		102	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	09/01/2016 1109	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1600	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1600	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1600	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1600	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1600	ug/kg	1
Chlordane	57-74-9	8081B	ND		3200	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1600	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**15000**		**1600**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		1600	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**13000**		**1600**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**16000**		**1600**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**28000**		**1600**	**ug/kg**	**1**
Endosulfan I	**959-98-8**	**8081B**	**3300**	**P**	**1600**	**ug/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-014**
Description: **BL-DS-04-D**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.1** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	09/01/2016 1109	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		1600	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1600	ug/kg	1
Endrin	**72-20-8**	**8081B**	**3700**	**P**	**1600**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**2700**		**1600**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**3200**		**1600**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**1600**	**P**	**1600**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**2200**	**P**	**1600**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		6400	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		16000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1528	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1611	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**7500**		**21**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		1.1	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**1.2**		**0.79**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**36**		**1.4**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.26	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.34**		**0.26**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**770**		**260**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**16**		**0.53**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**1.4**		**1.4**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**22**		**0.53**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**7000**		**5.3**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**87**		**0.53**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**970**		**260**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**50**		**0.79**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.13	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**6.0**		**2.1**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**840**		**260**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.1	mg/kg	1
Silver	7440-22-4	6010C	ND		0.53	mg/kg	1

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ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-014**
Description: **BL-DS-04-D**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.1** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1528	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1611	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		260	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.6	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**30**		**2.6**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**120**		**2.6**	**mg/kg**	**1**

PQL = Practical quantitation limit
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E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-015**
Description: **BL-DS-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.3** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1810	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.80	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	09/02/2016 1454	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		2600	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		2600	ug/kg	1
Acetophenone	98-86-2	8270D	ND		2600	ug/kg	1
Anthracene	120-12-7	8270D	ND		2600	ug/kg	1
Atrazine	1912-24-9	8270D	ND		2600	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		6600	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		2600	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		2600	ug/kg	1
Benzo(b)fluoranthene	**205-99-2**	**8270D**	**3700**		**2600**	**ug/kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270D	ND		2600	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		2600	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		2600	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		2600	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		2600	ug/kg	1
Caprolactam	105-60-2	8270D	ND		6600	ug/kg	1
Carbazole	86-74-8	8270D	ND		2600	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		2600	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		2600	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		2600	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		2600	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		2600	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		2600	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		2600	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		2600	ug/kg	1
Chrysene	218-01-9	8270D	ND		2600	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		2600	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		2600	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		2600	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		2600	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		6600	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		2600	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		2600	ug/kg	1

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-015**
Description: **BL-DS-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.3** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	09/02/2016 1454	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		2600	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		2600	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		6600	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		6600	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		2600	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		2600	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270D**	**3400**		**2600**	**ug/kg**	**1**
Fluoranthene	**206-44-0**	**8270D**	**3400**		**2600**	**ug/kg**	**1**
Fluorene	86-73-7	8270D	ND		2600	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		2600	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		2600	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		6600	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		2600	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		2600	ug/kg	1
Isophorone	78-59-1	8270D	ND		2600	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		2600	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		2600	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		5300	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		2600	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		2600	ug/kg	1
Naphthalene	91-20-3	8270D	ND		2600	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		2600	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		2600	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		2600	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		2600	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		2600	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		6600	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		6600	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		2600	ug/kg	1
Phenol	108-95-2	8270D	ND		2600	ug/kg	1
Pyrene	**129-00-0**	**8270D**	**2600**		**2600**	**ug/kg**	**1**
2,4,5-Trichlorophenol	95-95-4	8270D	ND		2600	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		2600	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		70	30-117
2-Fluorobiphenyl		69	33-102
2-Fluorophenol		69	28-104
Nitrobenzene-d5		64	22-109
Phenol-d5		68	27-103
Terphenyl-d14		73	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	2000	08/31/2016 2205	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		30000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		30000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		30000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		30000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**780000**		**30000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**730000**		**30000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		30000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	977	41-132
Tetrachloro-m-xylene	N	128	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	09/01/2016 1124	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1500	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1500	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1500	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1500	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1500	ug/kg	1
Chlordane	57-74-9	8081B	ND		3000	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1500	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**15000**		**1500**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		1500	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**14000**		**1500**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**15000**		**1500**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**28000**		**1500**	**ug/kg**	**1**
Endosulfan I	**959-98-8**	**8081B**	**3300**	**P**	**1500**	**ug/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-015**
Description: **BL-DS-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.3** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	09/01/2016 1124	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		1500	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1500	ug/kg	1
Endrin	**72-20-8**	**8081B**	**3700**	**P**	**1500**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**2700**		**1500**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**3000**		**1500**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**1500**	**P**	**1500**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**2200**	**P**	**1500**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		6000	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		15000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1531	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1615	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**11000**		**24**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		1.2	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**1.5**		**0.88**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**49**		**1.5**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.29	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.45**		**0.29**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**1000**		**290**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**25**		**0.59**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**1.8**		**1.5**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**30**		**0.59**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**8800**		**5.9**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**61**		**0.59**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**1200**		**290**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**60**		**0.88**	**mg/kg**	**1**
Mercury	**7439-97-6**	**7471B**	**0.14**		**0.13**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**9.4**		**2.4**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**950**		**290**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.2	mg/kg	1
Silver	7440-22-4	6010C	ND		0.59	mg/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-015**
Description: **BL-DS-04**	Matrix: **Solid**
Date Sampled: **08/22/2016 1235**	% Solids: **62.3** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1531	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1615	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		290	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.9	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**44**		**2.9**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**170**		**2.9**	**mg/kg**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-016**
Description: **BL-SD-06**	Matrix: **Solid**
Date Sampled: **08/22/2016 1140**	% Solids: **61.6** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1811	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.81	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1519	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		520	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		520	ug/kg	1
Acetophenone	98-86-2	8270D	ND		520	ug/kg	1
Anthracene	120-12-7	8270D	ND		520	ug/kg	1
Atrazine	1912-24-9	8270D	ND		520	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1300	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		520	ug/kg	1
Benzo(a)pyrene	**50-32-8**	**8270D**	**610**		**520**	**ug/kg**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270D**	**1600**		**520**	**ug/kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270D	ND		520	ug/kg	1
Benzo(k)fluoranthene	**207-08-9**	**8270D**	**610**		**520**	**ug/kg**	**1**
1,1'-Biphenyl	92-52-4	8270D	ND		520	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		520	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		520	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1300	ug/kg	1
Carbazole	86-74-8	8270D	ND		520	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		520	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		520	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		520	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		520	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		520	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		520	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		520	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		520	ug/kg	1
Chrysene	**218-01-9**	**8270D**	**800**		**520**	**ug/kg**	**1**
Di-n-butyl phthalate	84-74-2	8270D	ND		520	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		520	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		520	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		520	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1300	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		520	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		520	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-016**
Description: **BL-SD-06**	Matrix: **Solid**
Date Sampled: **08/22/2016 1140**	% Solids: **61.6** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1519	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		520	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		520	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1300	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		520	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		520	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270D**	**2400**		**520**	**ug/kg**	**1**
Fluoranthene	**206-44-0**	**8270D**	**1400**		**520**	**ug/kg**	**1**
Fluorene	86-73-7	8270D	ND		520	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		520	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		520	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1300	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		520	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		520	ug/kg	1
Isophorone	78-59-1	8270D	ND		520	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		520	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		520	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1100	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		520	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		520	ug/kg	1
Naphthalene	91-20-3	8270D	ND		520	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		520	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		520	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		520	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		520	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		520	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1300	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1300	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		520	ug/kg	1
Phenol	108-95-2	8270D	ND		520	ug/kg	1
Pyrene	**129-00-0**	**8270D**	**920**		**520**	**ug/kg**	**1**
2,4,5-Trichlorophenol	95-95-4	8270D	ND		520	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		520	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		67	30-117
2-Fluorobiphenyl		62	33-102
2-Fluorophenol		60	28-104
Nitrobenzene-d5		58	22-109
Phenol-d5		64	27-103
Terphenyl-d14		75	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	5000	08/31/2016 2245	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		74000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		74000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		74000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		74000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**1000000**		**74000**	**ug/kg**	**1**
Aroclor 1254	**11097-69-1**	**8082A**	**660000**		**74000**	**ug/kg**	**1**
Aroclor 1260	11096-82-5	8082A	ND		74000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	1170	41-132
Tetrachloro-m-xylene	N	267	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	500	08/31/2016 1654	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		740	ug/kg	1
gamma-BHC (Lindane)	**58-89-9**	**8081B**	**1200**	**P**	**740**	**ug/kg**	**1**
alpha-BHC	319-84-6	8081B	ND		740	ug/kg	1
beta-BHC	319-85-7	8081B	ND		740	ug/kg	1
delta-BHC	**319-86-8**	**8081B**	**1500**	**P**	**740**	**ug/kg**	**1**
Chlordane	57-74-9	8081B	ND		1500	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		740	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**17000**		**740**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		740	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**14000**		**740**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**14000**		**740**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**27000**		**740**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		740	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-016**
Description: **BL-SD-06**	Matrix: **Solid**
Date Sampled: **08/22/2016 1140**	% Solids: **61.6** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	500	08/31/2016 1654	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		740	ug/kg	1
Endosulfan sulfate	**1031-07-8**	**8081B**	**1300**		**740**	**ug/kg**	**1**
Endrin	**72-20-8**	**8081B**	**3500**	**P**	**740**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**2600**		**740**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**2400**		**740**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**2400**	**P**	**740**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**2500**	**P**	**740**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		3000	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		7400	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	475	57-110
Tetrachloro-m-xylene	N	108	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1533	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1620	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**14000**		**23**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		1.1	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**4.1**		**0.86**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**49**		**1.5**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.29	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.29**		**0.29**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**1000**		**290**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**56**		**0.57**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**1.8**		**1.5**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**33**		**0.57**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**13000**		**5.7**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**82**		**0.57**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**580**		**290**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**42**		**0.86**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.12	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**7.1**		**2.3**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**350**		**290**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.1	mg/kg	1
Silver	7440-22-4	6010C	ND		0.57	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-016**
Description: **BL-SD-06**	Matrix: **Solid**
Date Sampled: **08/22/2016 1140**	% Solids: **61.6** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1533	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1620	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		290	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.9	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**46**		**2.9**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**140**		**2.9**	**mg/kg**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-017**
Description: **BL-SD-18**	Matrix: **Solid**
Date Sampled: **08/22/2016 1643**	% Solids: **52.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1812	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.95	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1543	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		610	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		610	ug/kg	1
Acetophenone	98-86-2	8270D	ND		610	ug/kg	1
Anthracene	120-12-7	8270D	ND		610	ug/kg	1
Atrazine	1912-24-9	8270D	ND		610	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1500	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		610	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		610	ug/kg	1
Benzo(b)fluoranthene	**205-99-2**	**8270D**	**1400**		**610**	**ug/kg**	**1**
Benzo(g,h,i)perylene	191-24-2	8270D	ND		610	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		610	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		610	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		610	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		610	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1500	ug/kg	1
Carbazole	86-74-8	8270D	ND		610	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		610	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		610	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		610	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		610	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		610	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		610	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		610	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		610	ug/kg	1
Chrysene	**218-01-9**	**8270D**	**610**		**610**	**ug/kg**	**1**
Di-n-butyl phthalate	84-74-2	8270D	ND		610	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		610	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		610	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		610	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1500	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		610	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		610	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-017**
Description: **BL-SD-18**	Matrix: **Solid**
Date Sampled: **08/22/2016 1643**	% Solids: **52.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1543	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		610	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		610	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1500	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1500	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		610	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		610	ug/kg	1
bis(2-Ethylhexyl)phthalate	**117-81-7**	**8270D**	**660**		**610**	**ug/kg**	**1**
Fluoranthene	**206-44-0**	**8270D**	**850**		**610**	**ug/kg**	**1**
Fluorene	86-73-7	8270D	ND		610	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		610	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		610	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1500	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		610	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		610	ug/kg	1
Isophorone	78-59-1	8270D	ND		610	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		610	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		610	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1200	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		610	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		610	ug/kg	1
Naphthalene	91-20-3	8270D	ND		610	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		610	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		610	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		610	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		610	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		610	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1500	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1500	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		610	ug/kg	1
Phenol	108-95-2	8270D	ND		610	ug/kg	1
Pyrene	**129-00-0**	**8270D**	**700**		**610**	**ug/kg**	**1**
2,4,5-Trichlorophenol	95-95-4	8270D	ND		610	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		610	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		72	30-117
2-Fluorobiphenyl		60	33-102
2-Fluorophenol		66	28-104
Nitrobenzene-d5		61	22-109
Phenol-d5		67	27-103
Terphenyl-d14		67	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	08/31/2016 2112	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		18000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		18000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		18000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		18000	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**250000**		**18000**	**ug/kg**	**1**
Aroclor 1254	11097-69-1	8082A	ND		18000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		18000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	309	41-132
Tetrachloro-m-xylene	N	123	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	100	08/31/2016 1709	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		180	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		180	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		180	ug/kg	1
beta-BHC	319-85-7	8081B	ND		180	ug/kg	1
delta-BHC	**319-86-8**	**8081B**	**220**	**P**	**180**	**ug/kg**	**1**
Chlordane	57-74-9	8081B	ND		360	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		180	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**4500**		**180**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		180	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**3500**		**180**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**3900**		**180**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**7300**		**180**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		180	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-017**
Description: **BL-SD-18**	Matrix: **Solid**
Date Sampled: **08/22/2016 1643**	% Solids: **52.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	100	08/31/2016 1709	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		180	ug/kg	1
Endosulfan sulfate	**1031-07-8**	**8081B**	**310**	**P**	**180**	**ug/kg**	**1**
Endrin	**72-20-8**	**8081B**	**970**	**P**	**180**	**ug/kg**	**1**
Endrin aldehyde	**7421-93-4**	**8081B**	**740**		**180**	**ug/kg**	**1**
Endrin ketone	**53494-70-5**	**8081B**	**740**		**180**	**ug/kg**	**1**
Heptachlor	**76-44-8**	**8081B**	**380**	**P**	**180**	**ug/kg**	**1**
Heptachlor epoxide	**1024-57-3**	**8081B**	**580**	**P**	**180**	**ug/kg**	**1**
Methoxychlor	72-43-5	8081B	ND		730	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		1800	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	270	57-110
Tetrachloro-m-xylene		87	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1535	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1624	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**9700**		**22**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		1.1	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**1.4**		**0.82**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**46**		**1.4**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.27	mg/kg	1
Cadmium	**7440-43-9**	**6010C**	**0.61**		**0.27**	**mg/kg**	**1**
Calcium	**7440-70-2**	**6010C**	**1000**		**270**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**20**		**0.55**	**mg/kg**	**1**
Cobalt	7440-48-4	6010C	ND		1.4	mg/kg	1
Copper	**7440-50-8**	**6010C**	**18**		**0.55**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**5500**		**5.5**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**33**		**0.55**	**mg/kg**	**1**
Magnesium	**7439-95-4**	**6010C**	**410**		**270**	**mg/kg**	**1**
Manganese	**7439-96-5**	**6010C**	**32**		**0.82**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.15	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**5.1**		**2.2**	**mg/kg**	**1**
Potassium	**7440-09-7**	**6010C**	**340**		**270**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		1.1	mg/kg	1
Silver	7440-22-4	6010C	ND		0.55	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-017**
Description: **BL-SD-18**	Matrix: **Solid**
Date Sampled: **08/22/2016 1643**	% Solids: **52.4** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1535	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1624	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		270	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.7	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**26**		**2.7**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**110**		**2.7**	**mg/kg**	**1**

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-018**
Description: **BL-SD-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1520**	% Solids: **78.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1814	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.64	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1617	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		420	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		420	ug/kg	1
Acetophenone	98-86-2	8270D	ND		420	ug/kg	1
Anthracene	120-12-7	8270D	ND		420	ug/kg	1
Atrazine	1912-24-9	8270D	ND		420	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		420	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		420	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		420	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		420	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		420	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		420	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		420	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		420	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1100	ug/kg	1
Carbazole	86-74-8	8270D	ND		420	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		420	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		420	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		420	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		420	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		420	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		420	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		420	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		420	ug/kg	1
Chrysene	218-01-9	8270D	ND		420	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		420	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		420	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		420	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		420	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1100	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		420	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		420	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-018**
Description: **BL-SD-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1520**	% Solids: **78.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1617	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		420	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		420	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1100	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1100	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		420	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		420	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		420	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		420	ug/kg	1
Fluorene	86-73-7	8270D	ND		420	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		420	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		420	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1100	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		420	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		420	ug/kg	1
Isophorone	78-59-1	8270D	ND		420	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		420	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		420	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		860	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		420	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		420	ug/kg	1
Naphthalene	91-20-3	8270D	ND		420	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		420	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		420	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		420	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		420	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		420	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1100	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1100	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		420	ug/kg	1
Phenol	108-95-2	8270D	ND		420	ug/kg	1
Pyrene	129-00-0	8270D	ND		420	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		420	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		420	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		77	30-117
2-Fluorobiphenyl		73	33-102
2-Fluorophenol		69	28-104
Nitrobenzene-d5		75	22-109
Phenol-d5		76	27-103
Terphenyl-d14		86	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	08/31/2016 1952	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		12	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		12	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		12	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		12	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**100**		**12**	**ug/kg**	**1**
Aroclor 1254	11097-69-1	8082A	ND		12	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		98	41-132
Tetrachloro-m-xylene		92	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/01/2016 1154	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.2	ug/kg	1
Chlordane	57-74-9	8081B	ND		2.5	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1.2	ug/kg	1
trans-Chlordane	**5103-74-2**	**8081B**	**1.7**	**P**	**1.2**	**ug/kg**	**1**
4,4'-DDD	72-54-8	8081B	ND		1.2	ug/kg	1
4,4'-DDE	**72-55-9**	**8081B**	**6.7**		**1.2**	**ug/kg**	**1**
4,4'-DDT	**50-29-3**	**8081B**	**2.2**	**P**	**1.2**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**3.5**		**1.2**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.2	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-018**
Description: **BL-SD-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1520**	% Solids: **78.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/01/2016 1154	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		1.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.2	ug/kg	1
Endrin	72-20-8	8081B	ND		1.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		4.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		97	57-110
Tetrachloro-m-xylene		90	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1537	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1642	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**5000**		**15**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		0.75	mg/kg	1
Arsenic	7440-38-2	6010C	ND		0.56	mg/kg	1
Barium	**7440-39-3**	**6010C**	**25**		**0.98**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.19	mg/kg	1
Cadmium	7440-43-9	6010C	ND		0.19	mg/kg	1
Calcium	7440-70-2	6010C	ND		190	mg/kg	1
Chromium	**7440-47-3**	**6010C**	**7.0**		**0.38**	**mg/kg**	**1**
Cobalt	7440-48-4	6010C	ND		0.98	mg/kg	1
Copper	**7440-50-8**	**6010C**	**3.1**		**0.38**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**2600**		**3.8**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**11**		**0.38**	**mg/kg**	**1**
Magnesium	7439-95-4	6010C	ND		190	mg/kg	1
Manganese	**7439-96-5**	**6010C**	**17**		**0.56**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.10	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**1.8**		**1.5**	**mg/kg**	**1**
Potassium	7440-09-7	6010C	ND		190	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.75	mg/kg	1
Silver	7440-22-4	6010C	ND		0.38	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-018**
Description: **BL-SD-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1520**	% Solids: **78.0** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1537	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1642	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		190	mg/kg	1
Thallium	7440-28-0	6010C	ND		1.9	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**9.5**		**1.9**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**13**		**1.9**	**mg/kg**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**
Description: **BL-DS-19**
Date Sampled: **08/22/2016 1525**
Date Received: **08/24/2016**

Laboratory ID: **RH24015-019**
Matrix: **Solid**
% Solids: **75.5** **08/24/2016 2325**

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1817	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.66	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1642	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		440	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		440	ug/kg	1
Acetophenone	98-86-2	8270D	ND		440	ug/kg	1
Anthracene	120-12-7	8270D	ND		440	ug/kg	1
Atrazine	1912-24-9	8270D	ND		440	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		440	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		440	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		440	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		440	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		440	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		440	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		440	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		440	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1100	ug/kg	1
Carbazole	86-74-8	8270D	ND		440	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		440	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		440	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		440	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		440	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		440	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		440	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		440	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		440	ug/kg	1
Chrysene	218-01-9	8270D	ND		440	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		440	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		440	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		440	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		440	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1100	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		440	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		440	ug/kg	1

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-019**
Description: **BL-DS-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1525**	% Solids: **75.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1642	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		440	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		440	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1100	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1100	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		440	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		440	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		440	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		440	ug/kg	1
Fluorene	86-73-7	8270D	ND		440	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		440	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		440	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1100	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		440	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		440	ug/kg	1
Isophorone	78-59-1	8270D	ND		440	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		440	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		440	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		890	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		440	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		440	ug/kg	1
Naphthalene	91-20-3	8270D	ND		440	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		440	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		440	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		440	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		440	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		440	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1100	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1100	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		440	ug/kg	1
Phenol	108-95-2	8270D	ND		440	ug/kg	1
Pyrene	129-00-0	8270D	ND		440	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		440	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		440	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		70	30-117
2-Fluorobiphenyl		66	33-102
2-Fluorophenol		64	28-104
Nitrobenzene-d5		70	22-109
Phenol-d5		71	27-103
Terphenyl-d14		78	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	08/31/2016 2005	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		12	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		12	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		12	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		12	ug/kg	1
Aroclor 1248	**12672-29-6**	**8082A**	**67**		**12**	**ug/kg**	**1**
Aroclor 1254	11097-69-1	8082A	ND		12	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		95	41-132
Tetrachloro-m-xylene		92	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/01/2016 1209	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.2	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.2	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.2	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.2	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.2	ug/kg	1
Chlordane	57-74-9	8081B	ND		2.5	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1.2	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		1.2	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.2	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.2	ug/kg	1
4,4'-DDT	**50-29-3**	**8081B**	**1.2**	**P**	**1.2**	**ug/kg**	**1**
Dieldrin	**60-57-1**	**8081B**	**1.8**	**P**	**1.2**	**ug/kg**	**1**
Endosulfan I	959-98-8	8081B	ND		1.2	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
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H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-019**
Description: **BL-DS-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1525**	% Solids: **75.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/01/2016 1209	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	ND		1.2	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.2	ug/kg	1
Endrin	72-20-8	8081B	ND		1.2	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.2	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.2	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.2	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.2	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		5.0	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		88	57-110
Tetrachloro-m-xylene		89	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1539	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1647	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	**7429-90-5**	**6010C**	**7000**		**16**	**mg/kg**	**1**
Antimony	7440-36-0	6010C	ND		0.80	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**1.1**		**0.60**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**51**		**1.0**	**mg/kg**	**1**
Beryllium	7440-41-7	6010C	ND		0.20	mg/kg	1
Cadmium	7440-43-9	6010C	ND		0.20	mg/kg	1
Calcium	7440-70-2	6010C	ND		200	mg/kg	1
Chromium	**7440-47-3**	**6010C**	**7.8**		**0.40**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**1.2**		**1.0**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**3.3**		**0.40**	**mg/kg**	**1**
Iron	**7439-89-6**	**6010C**	**4400**		**4.0**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**7.4**		**0.40**	**mg/kg**	**1**
Magnesium	7439-95-4	6010C	ND		200	mg/kg	1
Manganese	**7439-96-5**	**6010C**	**32**		**0.60**	**mg/kg**	**1**
Mercury	7439-97-6	7471B	ND		0.096	mg/kg	1
Nickel	**7440-02-0**	**6010C**	**2.1**		**1.6**	**mg/kg**	**1**
Potassium	7440-09-7	6010C	ND		200	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.80	mg/kg	1
Silver	7440-22-4	6010C	ND		0.40	mg/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **synTerra**	Laboratory ID: **RH24015-019**
Description: **BL-DS-19**	Matrix: **Solid**
Date Sampled: **08/22/2016 1525**	% Solids: **75.5** **08/24/2016 2325**
Date Received: **08/24/2016**	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/29/2016 1539	CLM	08/29/2016 1149	20777
1	3050B	6010C	1	08/26/2016 1647	CJZ	08/25/2016 1047	20636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Sodium	7440-23-5	6010C	ND		200	mg/kg	1
Thallium	7440-28-0	6010C	ND		2.0	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**13**		**2.0**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**8.4**		**2.0**	**mg/kg**	**1**

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time

ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: RQ20971-001
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Cyanide - Total	ND		1	0.50	mg/kg	08/30/2016 1754

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: RQ20971-002
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	5.0	4.9		1	98	90-110	08/30/2016 1755

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: RH24015-018MS
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	ND	6.4	5.7		1	89	70-130	08/30/2016 1815

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: RH24015-018MD
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	ND	6.4	6.2		1	97	9.3	70-130	20	08/30/2016 1816

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ20899-001
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1'-Biphenyl	ND		1	330	ug/kg	08/30/2016 0944
2,4,5-Trichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4,6-Trichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dimethylphenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dinitrophenol	ND		1	830	ug/kg	08/30/2016 0944
2,4-Dinitrotoluene	ND		1	330	ug/kg	08/30/2016 0944
2,6-Dinitrotoluene	ND		1	330	ug/kg	08/30/2016 0944
2-Chloronaphthalene	ND		1	330	ug/kg	08/30/2016 0944
2-Chlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2-Methylnaphthalene	ND		1	330	ug/kg	08/30/2016 0944
2-Methylphenol	ND		1	330	ug/kg	08/30/2016 0944
2-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
2-Nitrophenol	ND		1	330	ug/kg	08/30/2016 0944
3+4-Methylphenol	ND		1	670	ug/kg	08/30/2016 0944
3,3'-Dichlorobenzidine	ND		1	830	ug/kg	08/30/2016 0944
3-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
4,6-Dinitro-2-methylphenol	ND		1	830	ug/kg	08/30/2016 0944
4-Bromophenyl phenyl ether	ND		1	330	ug/kg	08/30/2016 0944
4-Chloro-3-methyl phenol	ND		1	330	ug/kg	08/30/2016 0944
4-Chloroaniline	ND		1	330	ug/kg	08/30/2016 0944
4-Chlorophenyl phenyl ether	ND		1	330	ug/kg	08/30/2016 0944
4-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
4-Nitrophenol	ND		1	830	ug/kg	08/30/2016 0944
Acenaphthene	ND		1	330	ug/kg	08/30/2016 0944
Acenaphthylene	ND		1	330	ug/kg	08/30/2016 0944
Acetophenone	ND		1	330	ug/kg	08/30/2016 0944
Anthracene	ND		1	330	ug/kg	08/30/2016 0944
Atrazine	ND		1	330	ug/kg	08/30/2016 0944
Benzaldehyde	ND		1	830	ug/kg	08/30/2016 0944
Benzo(a)anthracene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(a)pyrene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(b)fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(g,h,i)perylene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(k)fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
bis (2-Chloro-1-methylethyl) ether	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Chloroethoxy)methane	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Chloroethyl)ether	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Ethylhexyl)phthalate	ND		1	330	ug/kg	08/30/2016 0944
Butyl benzyl phthalate	ND		1	330	ug/kg	08/30/2016 0944
Caprolactam	ND		1	830	ug/kg	08/30/2016 0944
Carbazole	ND		1	330	ug/kg	08/30/2016 0944
Chrysene	ND		1	330	ug/kg	08/30/2016 0944
Di-n-butyl phthalate	ND		1	330	ug/kg	08/30/2016 0944

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ20899-001
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Di-n-octylphthalate	ND		1	330	ug/kg	08/30/2016 0944
Dibenzo(a,h)anthracene	ND		1	330	ug/kg	08/30/2016 0944
Dibenzofuran	ND		1	330	ug/kg	08/30/2016 0944
Diethylphthalate	ND		1	330	ug/kg	08/30/2016 0944
Dimethyl phthalate	ND		1	330	ug/kg	08/30/2016 0944
Fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
Fluorene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorobenzene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorobutadiene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorocyclopentadiene	ND		1	830	ug/kg	08/30/2016 0944
Hexachloroethane	ND		1	330	ug/kg	08/30/2016 0944
Indeno(1,2,3-c,d)pyrene	ND		1	330	ug/kg	08/30/2016 0944
Isophorone	ND		1	330	ug/kg	08/30/2016 0944
N-Nitrosodi-n-propylamine	ND		1	330	ug/kg	08/30/2016 0944
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	330	ug/kg	08/30/2016 0944
Naphthalene	ND		1	330	ug/kg	08/30/2016 0944
Nitrobenzene	ND		1	330	ug/kg	08/30/2016 0944
Pentachlorophenol	ND		1	830	ug/kg	08/30/2016 0944
Phenanthrene	ND		1	330	ug/kg	08/30/2016 0944
Phenol	ND		1	330	ug/kg	08/30/2016 0944
Pyrene	ND		1	330	ug/kg	08/30/2016 0944

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		61	30-117
2-Fluorobiphenyl		72	33-102
2-Fluorophenol		71	28-104
Nitrobenzene-d5		78	22-109
Phenol-d5		78	27-103
Terphenyl-d14		84	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20899-002
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	1700	1100		1	66	49-110	08/30/2016 1008
2,4,5-Trichlorophenol	1700	1100		1	67	46-122	08/30/2016 1008
2,4,6-Trichlorophenol	1700	1100		1	65	38-115	08/30/2016 1008
2,4-Dichlorophenol	3300	2100		1	62	41-113	08/30/2016 1008
2,4-Dimethylphenol	1700	1300		1	75	33-123	08/30/2016 1008
2,4-Dinitrophenol	1700	970		1	58	45-127	08/30/2016 1008
2,4-Dinitrotoluene	1700	1400		1	81	48-124	08/30/2016 1008
2,6-Dinitrotoluene	1700	1200		1	73	47-125	08/30/2016 1008
2-Chloronaphthalene	1700	1100		1	64	31-127	08/30/2016 1008
2-Chlorophenol	1700	1100		1	64	37-106	08/30/2016 1008
2-Methylnaphthalene	1700	1000		1	62	40-106	08/30/2016 1008
2-Methylphenol	1700	1300		1	76	32-107	08/30/2016 1008
2-Nitroaniline	1700	1300		1	77	45-123	08/30/2016 1008
2-Nitrophenol	1700	1000		1	63	35-108	08/30/2016 1008
3+4-Methylphenol	1700	1100		1	69	39-108	08/30/2016 1008
3,3'-Dichlorobenzidine	1700	1200		1	75	46-113	08/30/2016 1008
3-Nitroaniline	1700	1200		1	73	24-127	08/30/2016 1008
4,6-Dinitro-2-methylphenol	1700	1300		1	80	40-130	08/30/2016 1008
4-Bromophenyl phenyl ether	1700	1100		1	69	46-118	08/30/2016 1008
4-Chloro-3-methyl phenol	1700	1300		1	78	49-118	08/30/2016 1008
4-Chloroaniline	1700	1600		1	96	10-125	08/30/2016 1008
4-Chlorophenyl phenyl ether	1700	1100		1	65	47-116	08/30/2016 1008
4-Nitroaniline	1700	1400		1	85	48-127	08/30/2016 1008
4-Nitrophenol	3300	3300		1	100	18-154	08/30/2016 1008
Acenaphthene	1700	1200		1	72	46-114	08/30/2016 1008
Acenaphthylene	1700	1200		1	74	44-122	08/30/2016 1008
Acetophenone	1700	1000		1	60	48-111	08/30/2016 1008
Anthracene	1700	1300		1	81	50-119	08/30/2016 1008
Atrazine	1700	1300		1	76	48-116	08/30/2016 1008
Benzaldehyde	1700	1200		1	71	40-117	08/30/2016 1008
Benzo(a)anthracene	1700	1300		1	80	47-121	08/30/2016 1008
Benzo(a)pyrene	1700	1400		1	85	55-134	08/30/2016 1008
Benzo(b)fluoranthene	1700	1400		1	81	28-139	08/30/2016 1008
Benzo(g,h,i)perylene	1700	1300		1	78	36-125	08/30/2016 1008
Benzo(k)fluoranthene	1700	1400		1	82	47-130	08/30/2016 1008
bis (2-Chloro-1-methylethyl) ether	1700	1300		1	75	31-102	08/30/2016 1008
bis(2-Chloroethoxy)methane	1700	1100		1	68	39-108	08/30/2016 1008
bis(2-Chloroethyl)ether	1700	1300		1	76	32-105	08/30/2016 1008
bis(2-Ethylhexyl)phthalate	1700	1400		1	87	45-128	08/30/2016 1008
Butyl benzyl phthalate	1700	1600		1	95	46-128	08/30/2016 1008
Caprolactam	1700	1600		1	95	43-121	08/30/2016 1008
Carbazole	1700	1300		1	80	47-128	08/30/2016 1008
Chrysene	1700	1300		1	80	45-126	08/30/2016 1008
Di-n-butyl phthalate	1700	1500		1	89	51-129	08/30/2016 1008

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20899-002
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	1700	1300		1	81	49-142	08/30/2016 1008
Dibenzo(a,h)anthracene	1700	1400		1	83	45-122	08/30/2016 1008
Dibenzofuran	1700	1100		1	68	45-112	08/30/2016 1008
Diethylphthalate	1700	1400		1	81	49-123	08/30/2016 1008
Dimethyl phthalate	1700	1200		1	75	48-120	08/30/2016 1008
Fluoranthene	1700	1300		1	77	50-123	08/30/2016 1008
Fluorene	1700	1200		1	69	48-117	08/30/2016 1008
Hexachlorobenzene	1700	1300		1	76	44-122	08/30/2016 1008
Hexachlorobutadiene	1700	970		1	58	33-103	08/30/2016 1008
Hexachlorocyclopentadiene	8300	3900		1	46	18-121	08/30/2016 1008
Hexachloroethane	1700	1100		1	64	30-96	08/30/2016 1008
Indeno(1,2,3-c,d)pyrene	1700	1400		1	85	45-123	08/30/2016 1008
Isophorone	1700	1200		1	70	41-113	08/30/2016 1008
N-Nitrosodi-n-propylamine	1700	1300		1	80	32-115	08/30/2016 1008
N-Nitrosodiphenylamine (Diphenylamine)	1700	1300		1	80	53-150	08/30/2016 1008
Naphthalene	1700	1100		1	65	36-110	08/30/2016 1008
Nitrobenzene	1700	1300		1	75	33-114	08/30/2016 1008
Pentachlorophenol	3300	2100		1	62	27-138	08/30/2016 1008
Phenanthrene	1700	1300		1	77	49-117	08/30/2016 1008
Phenol	1700	1100		1	65	36-108	08/30/2016 1008
Pyrene	1700	1400		1	87	47-119	08/30/2016 1008

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		69	30-117
2-Fluorobiphenyl		63	33-102
2-Fluorophenol		59	28-104
Nitrobenzene-d5		72	22-109
Phenol-d5		65	27-103
Terphenyl-d14		80	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ20900-001
Batch: 20900
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840
Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1221	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1232	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1242	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1248	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1254	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1260	ND		1	10	ug/kg	08/30/2016 1039

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		97	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ20900-002
Batch: 20900
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840
Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	130		1	130	70-130	08/30/2016 1052
Aroclor 1260	100	110		1	111	70-130	08/30/2016 1052

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		95	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: RQ20904-001
Batch: 20904
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.0	ug/kg	08/30/2016 1415
4,4'-DDE	ND		1	1.0	ug/kg	08/30/2016 1415
4,4'-DDT	ND		1	1.0	ug/kg	08/30/2016 1415
Aldrin	ND		1	1.0	ug/kg	08/30/2016 1415
alpha-BHC	ND		1	1.0	ug/kg	08/30/2016 1415
beta-BHC	ND		1	1.0	ug/kg	08/30/2016 1415
Chlordane	ND		1	2.0	ug/kg	08/30/2016 1415
cis-Chlordane	ND		1	1.0	ug/kg	08/30/2016 1415
delta-BHC	ND		1	1.0	ug/kg	08/30/2016 1415
Dieldrin	ND		1	1.0	ug/kg	08/30/2016 1415
Endosulfan I	ND		1	1.0	ug/kg	08/30/2016 1415
Endosulfan II	ND		1	1.0	ug/kg	08/30/2016 1415
Endosulfan sulfate	ND		1	1.0	ug/kg	08/30/2016 1415
Endrin	ND		1	1.0	ug/kg	08/30/2016 1415
Endrin aldehyde	ND		1	1.0	ug/kg	08/30/2016 1415
Endrin ketone	ND		1	1.0	ug/kg	08/30/2016 1415
gamma-BHC (Lindane)	ND		1	1.0	ug/kg	08/30/2016 1415
Heptachlor	ND		1	1.0	ug/kg	08/30/2016 1415
Heptachlor epoxide	ND		1	1.0	ug/kg	08/30/2016 1415
Methoxychlor	ND		1	4.0	ug/kg	08/30/2016 1415
Toxaphene	ND		1	10	ug/kg	08/30/2016 1415
trans-Chlordane	ND		1	1.0	ug/kg	08/30/2016 1415

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		98	57-110
Tetrachloro-m-xylene		85	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: RQ20904-002
Batch: 20904
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	20	21		1	105	70-130	08/30/2016 1430
4,4'-DDE	20	22		1	108	70-130	08/30/2016 1430
4,4'-DDT	20	22		1	109	70-130	08/30/2016 1430
Aldrin	20	20		1	101	70-130	08/30/2016 1430
alpha-BHC	20	20		1	100	70-130	08/30/2016 1430
beta-BHC	20	20		1	98	70-130	08/30/2016 1430
cis-Chlordane	20	20		1	100	70-130	08/30/2016 1430
delta-BHC	20	18		1	92	50-150	08/30/2016 1430
Dieldrin	20	21		1	105	70-130	08/30/2016 1430
Endosulfan I	20	19		1	94	70-130	08/30/2016 1430
Endosulfan II	20	19		1	94	70-130	08/30/2016 1430
Endosulfan sulfate	20	21		1	107	70-130	08/30/2016 1430
Endrin	20	21		1	104	70-130	08/30/2016 1430
Endrin aldehyde	20	17		1	87	70-130	08/30/2016 1430
Endrin ketone	20	21		1	105	70-130	08/30/2016 1430
gamma-BHC (Lindane)	20	21		1	103	70-130	08/30/2016 1430
Heptachlor	20	20		1	102	70-130	08/30/2016 1430
Heptachlor epoxide	20	20		1	99	70-130	08/30/2016 1430
Methoxychlor	20	21		1	107	70-130	08/30/2016 1430
trans-Chlordane	20	20		1	101	70-130	08/30/2016 1430

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		103	57-110
Tetrachloro-m-xylene		87	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21021-001
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147
Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1221	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1232	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1242	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1248	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1254	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1260	ND		1	10	ug/kg	08/31/2016 1646

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		58	41-132
Tetrachloro-m-xylene		56	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21021-002
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147
Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	110		1	107	70-130	08/31/2016 1659
Aroclor 1260	100	110		1	108	70-130	08/31/2016 1659

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		92	41-132
Tetrachloro-m-xylene		90	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ20636-001
Batch: 20636
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 08/25/2016 1047

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aluminum	ND		1	20	mg/kg	08/26/2016 1427
Antimony	ND		1	1.0	mg/kg	08/26/2016 1427
Arsenic	ND		1	0.75	mg/kg	08/26/2016 1427
Barium	ND		1	1.3	mg/kg	08/26/2016 1427
Beryllium	ND		1	0.25	mg/kg	08/26/2016 1427
Cadmium	ND		1	0.25	mg/kg	08/26/2016 1427
Calcium	ND		1	250	mg/kg	08/26/2016 1427
Chromium	ND		1	0.50	mg/kg	08/26/2016 1427
Cobalt	ND		1	1.3	mg/kg	08/26/2016 1427
Copper	ND		1	0.50	mg/kg	08/26/2016 1427
Iron	ND		1	5.0	mg/kg	08/26/2016 1427
Lead	ND		1	0.50	mg/kg	08/26/2016 1427
Magnesium	ND		1	250	mg/kg	08/26/2016 1427
Manganese	ND		1	0.75	mg/kg	08/26/2016 1427
Nickel	ND		1	2.0	mg/kg	08/26/2016 1427
Potassium	ND		1	250	mg/kg	08/26/2016 1427
Selenium	ND		1	1.0	mg/kg	08/26/2016 1427
Silver	ND		1	0.50	mg/kg	08/26/2016 1427
Sodium	ND		1	250	mg/kg	08/26/2016 1427
Thallium	ND		1	2.5	mg/kg	08/26/2016 1427
Vanadium	ND		1	2.5	mg/kg	08/26/2016 1427
Zinc	ND		1	2.5	mg/kg	08/26/2016 1427

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ20636-002
Batch: 20636
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 08/25/2016 1047

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aluminum	1000	980		1	98	80-120	08/26/2016 1432
Antimony	50	46		1	93	80-120	08/26/2016 1432
Arsenic	250	250		1	100	80-120	08/26/2016 1432
Barium	500	500		1	101	80-120	08/26/2016 1432
Beryllium	100	98		1	98	80-120	08/26/2016 1432
Cadmium	50	46		1	91	80-120	08/26/2016 1432
Calcium	2000	2000		1	98	80-120	08/26/2016 1432
Chromium	250	250		1	100	80-120	08/26/2016 1432
Cobalt	100	100		1	101	80-120	08/26/2016 1432
Copper	100	100		1	101	80-120	08/26/2016 1432
Iron	1000	980		1	98	80-120	08/26/2016 1432
Lead	250	250		1	101	80-120	08/26/2016 1432
Magnesium	2000	2000		1	98	80-120	08/26/2016 1432
Manganese	100	100		1	101	80-120	08/26/2016 1432
Nickel	100	100		1	102	80-120	08/26/2016 1432
Potassium	2000	2000		1	99	80-120	08/26/2016 1432
Selenium	50	48		1	97	80-120	08/26/2016 1432
Silver	50	49		1	97	80-120	08/26/2016 1432
Sodium	2000	2000		1	98	80-120	08/26/2016 1432
Thallium	40	41		1	102	80-120	08/26/2016 1432
Vanadium	100	98		1	98	80-120	08/26/2016 1432
Zinc	100	100		1	100	80-120	08/26/2016 1432

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ20777-001
Batch: 20777
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 1149

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.083	mg/kg	08/29/2016 1452

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ20777-002
Batch: 20777
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 1149

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.83	0.90		1	108	80-120	08/29/2016 1454

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63881

Client: SYNTERRA	Report to Contact: HOWARD FRANK	Telephone No. / E-mail: hfrank@synterracorp.com	Quote No.
Address: 148 RIVER ST SUITE 220	Sampler's Signature: X [signature]	Analysis (Attach list if more space is needed)	Page 1 of 2
City: GREENVILLE State: SC Zip Code: 29601	Printed Name		RH24015
Project Name: FORMER BURLINGTON LAGOON			
Project No.: 1112.11 P.O. No.			

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Comp	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	2035 Kit	PCBs	[illegible]	[illegible]	[illegible]	TCL/TAL	SVOC/PEST	Remarks / Cooler I.D.
BL-DS-06	8-22-16	1150	G		X		X						X						
BL-DS-09	8-22-16	1453	G		X		X						X				X		
BL-SD-09	8-22-16	1448	G		X		X						X						
BL-SD-05	8-22-16	1200	G		X		X						X						
BL-DS-13	8-22-16	1537	G		X		X						X						
BL-SD-13	8-22-16	1532	G		X		X						X						
BL-SD-16	8-22-16	1603	G		X		X						X						
BL-SD-01	8-22-16	1141	G		X		X						X						
BL-SD-04	8-22-16	1226	G		X		X						X				X		
BL-DS-18	8-22-16	1648	G		X		X						X						

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☑ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	08/20/16	0735	1. Received by: [signature]	8/24/16	0735
2. Relinquished by: [signature]	08/24/16	0834	2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	8/24/16	0834

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 7.8 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63883

Client: SYNTERRA	Report to Contact: HOWARD FRANK	Telephone No. / E-mail: hfrank@synterra-corp.com	Quote No.
Address: 148 RIVER ST SUITE 220	Sampler's Signature: X [signature]	Analysis (Attach list if more space is needed)	Page 2 of 2
City: GREENVILLE; State: SC; Zip Code: 29601	Printed Name		RH24015
Project Name: FORMER BURLINGTON LAGOON			
Project No.: 1112.11; P.O. No.			

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Comp	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	HCl/H2O	HNO3	HCl	NaOH	NaOH/ZnOH	PCBs	SVOC/PEST	TCL/TAL	Remarks / Cooler I.D.
BL-DS-14	RCP 8-22-16 ~~8-22-16~~	1550	G		X		X						X			
BL-SD-01B	8/23/16	740	G		X		X						X	X	X	
BL-DS-01B	8/23/16	746	G		X		X						X	X	X	
BL-DS-04-D	8/22/16	1235	G		X		X						X	X	X	
BL-DS-04	8/22/16	1235	G		X		X						X	X	X	
BL-SD-06	8/22/16	1140	G		X		X						X	X	X	
BL-SD-18	8/22/16	1643	G		X		X						X	X	X	
BL-SD-19	8/22/16	1520	G		X		X						X	X	X	
BL-DS-19	8/22/16	1525	G		X		X						X	X	X	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☒ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☒ Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	08/24/16	0735	1. Received by: [signature]	8/24/16	0735
2. Relinquished by: [signature]	8/24/16	0834	2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	8/24/16	0834

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 7.8 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: ME0018C-04

Page 1 of 1
Effective Date: 02/05/2016
Expiry Date: 02/05/2021

Sample Receipt Checklist (SRC)

Client: Synterra Cooler Inspected by/date: Mam 08/24/16 Lot #: RH24015

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: _____ Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

A8A8 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☑	No ☐	NA ☐	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM was notified by: phone / email / face-to-face (circle one). *
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples not listed on COC?
Yes ☐	No ☐	NA ☑	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	N/A	22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC >0.2 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be >2 by _____ Date: _____

Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____

Sample labels applied by: Mam Verified by: _____ Date: 8/24/16

Comments: *Client notified via email 8/24/16. KMN

Report of Analysis

synTerra
INNOVATE
148 River Street, Suite 220
Greenville, SC 29601
Attention: Howard Frank

Project Name: Burlington Lagoon Site

Project Number: 1112.11

Lot Number: RH25003

Date Completed: 09/09/2016

Kelly M. Nance
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
synTerra
Lot Number: RH25003

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

GC/MS Volatiles
The initial calibration verification for batch 20754 had dichlorodifluoromethane recovered outside of the acceptance limits. Results for this compound in the samples associated with this batch should be considered estimated.

Batch 20754 did not include a MS/MSD or duplicate to an instrument error.

Pesticides
Due to high detections for target compounds, sample -006 was diluted 500x. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater may impact surrogate recoveries.

PCBs
Due to high detections for target compounds, samples -001, -002, -004 and -006 were diluted 5000x, 500x, 1000x and 5000x, respectively. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater may impact surrogate recoveries.

Sample Summary
synTerra
Lot Number: RH25003

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	BL-SS-28	Solid	08/23/2016 1115	08/25/2016
002	BL-SS-27D	Solid	08/24/2016 0750	08/25/2016
003	BL-SB-36	Solid	08/24/2016 1320	08/25/2016
004	BL-SB-28	Solid	08/23/2016 1120	08/25/2016
005	BL-SS-39	Solid	08/24/2016 1433	08/25/2016
006	BL-WA-3	Solid	08/24/2016 1607	08/25/2016
007	BL-SS-67	Solid	08/24/2016 1614	08/25/2016

(7 samples)

Executive Summary
synTerra
Lot Number: RH25003

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	BL-SS-28	Solid	Aroclor 1248	8082A	1500000		ug/kg	5
001	BL-SS-28	Solid	Aroclor 1254	8082A	1300000		ug/kg	5
002	BL-SS-27D	Solid	Aroclor 1248	8082A	68000		ug/kg	6
002	BL-SS-27D	Solid	Aroclor 1254	8082A	37000		ug/kg	6
004	BL-SB-28	Solid	Aroclor 1248	8082A	82000		ug/kg	8
004	BL-SB-28	Solid	Aroclor 1254	8082A	67000		ug/kg	8
005	BL-SS-39	Solid	Aroclor 1248	8082A	20		ug/kg	9
005	BL-SS-39	Solid	Aroclor 1254	8082A	27		ug/kg	9
006	BL-WA-3	Solid	bis(2-Ethylhexyl)phthalate	8270D	2800		ug/kg	11
006	BL-WA-3	Solid	Aroclor 1248	8082A	750000		ug/kg	12
006	BL-WA-3	Solid	gamma-BHC (Lindane)	8081B	1400	P	ug/kg	12
006	BL-WA-3	Solid	delta-BHC	8081B	910	P	ug/kg	12
006	BL-WA-3	Solid	trans-Chlordane	8081B	4500	P	ug/kg	12
006	BL-WA-3	Solid	4,4'-DDE	8081B	5700		ug/kg	12
006	BL-WA-3	Solid	4,4'-DDT	8081B	3600		ug/kg	12
006	BL-WA-3	Solid	Dieldrin	8081B	10000		ug/kg	12
006	BL-WA-3	Solid	Endosulfan II	8081B	1100	P	ug/kg	13
006	BL-WA-3	Solid	Endrin	8081B	1500		ug/kg	13
006	BL-WA-3	Solid	Endrin aldehyde	8081B	680		ug/kg	13
006	BL-WA-3	Solid	Endrin ketone	8081B	600		ug/kg	13
006	BL-WA-3	Solid	Heptachlor	8081B	8700	P	ug/kg	13
006	BL-WA-3	Solid	Heptachlor epoxide	8081B	1500	P	ug/kg	13
006	BL-WA-3	Solid	Aluminum	6010C	4700		mg/kg	13
006	BL-WA-3	Solid	Antimony	6010C	59		mg/kg	13
006	BL-WA-3	Solid	Barium	6010C	2000		mg/kg	13
006	BL-WA-3	Solid	Cadmium	6010C	21		mg/kg	13
006	BL-WA-3	Solid	Calcium	6010C	1200		mg/kg	13
006	BL-WA-3	Solid	Chromium	6010C	1800		mg/kg	13
006	BL-WA-3	Solid	Copper	6010C	1100		mg/kg	13
006	BL-WA-3	Solid	Iron	6010C	13000		mg/kg	13
006	BL-WA-3	Solid	Lead	6010C	1100		mg/kg	13
006	BL-WA-3	Solid	Manganese	6010C	8.2		mg/kg	13
006	BL-WA-3	Solid	Mercury	7471B	1.7		mg/kg	13
006	BL-WA-3	Solid	Nickel	6010C	5.4		mg/kg	13
006	BL-WA-3	Solid	Vanadium	6010C	6.4		mg/kg	14
006	BL-WA-3	Solid	Zinc	6010C	3200		mg/kg	14
007	BL-SS-67	Solid	Acetone	8260B	94		ug/kg	15

(37 detections)

Client: synTerra	Laboratory ID: RH25003-001
Description: BL-SS-28	Matrix: Solid
Date Sampled: 08/23/2016 1115	% Solids: 90.8 08/25/2016 2155
Date Received: 08/25/2016	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	5000	08/31/2016 2351	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		54000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		54000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		54000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		54000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	1500000		54000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	1300000		54000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		54000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	855	41-132
Tetrachloro-m-xylene		37	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-002
Description: BL-SS-27D	Matrix: Solid
Date Sampled: 08/24/2016 0750	% Solids: 85.8 08/25/2016 2155
Date Received: 08/25/2016	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/01/2016 0004	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		5700	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		5700	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		5700	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		5700	ug/kg	1
Aroclor 1248	12672-29-6	8082A	68000		5700	ug/kg	1
Aroclor 1254	11097-69-1	8082A	37000		5700	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		5700	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		126	41-132
Tetrachloro-m-xylene	N	116	35-106

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-003
Description: BL-SB-36	Matrix: Solid
Date Sampled: 08/24/2016 1320	% Solids: 85.1 08/25/2016 2155
Date Received: 08/25/2016	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	08/31/2016 2324	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		12	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		12	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		12	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		12	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		12	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		12	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		12	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		75	41-132
Tetrachloro-m-xylene		73	35-106

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-004
Description: BL-SB-28	Matrix: Solid
Date Sampled: 08/23/2016 1120	% Solids: 93.9 08/25/2016 2155
Date Received: 08/25/2016	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	09/01/2016 0017	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		10000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		10000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		10000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		10000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	82000		10000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	67000		10000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		10000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	172	41-132
Tetrachloro-m-xylene		50	35-106

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-005
Description: BL-SS-39	Matrix: Solid
Date Sampled: 08/24/2016 1433	% Solids: 95.5 08/25/2016 2155
Date Received: 08/25/2016	

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	08/31/2016 2337	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		10	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		10	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		10	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		10	ug/kg	1
Aroclor 1248	12672-29-6	8082A	20		10	ug/kg	1
Aroclor 1254	11097-69-1	8082A	27		10	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		10	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		62	41-132
Tetrachloro-m-xylene		62	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-006
Description: BL-WA-3	Matrix: Solid
Date Sampled: 08/24/2016 1607	% Solids: 94.6 08/25/2016 2155
Date Received: 08/25/2016	

Inorganic non-metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1818	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.53	mg/kg	1

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	09/02/2016 1608	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1700	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		1700	ug/kg	1
Acetophenone	98-86-2	8270D	ND		1700	ug/kg	1
Anthracene	120-12-7	8270D	ND		1700	ug/kg	1
Atrazine	1912-24-9	8270D	ND		1700	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		4300	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		1700	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		1700	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1700	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1700	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1700	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		1700	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1700	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		1700	ug/kg	1
Caprolactam	105-60-2	8270D	ND		4300	ug/kg	1
Carbazole	86-74-8	8270D	ND		1700	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1700	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		1700	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1700	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		1700	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		1700	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		1700	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		1700	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1700	ug/kg	1
Chrysene	218-01-9	8270D	ND		1700	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		1700	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		1700	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1700	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		1700	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4300	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1700	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		1700	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-006
Description: BL-WA-3	Matrix: Solid
Date Sampled: 08/24/2016 1607	% Solids: 94.6 08/25/2016 2155
Date Received: 08/25/2016	

Semivolatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	09/02/2016 1608	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Dimethyl phthalate	131-11-3	8270D	ND		1700	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1700	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4300	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1700	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1700	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	2800		1700	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		1700	ug/kg	1
Fluorene	86-73-7	8270D	ND		1700	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		1700	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		1700	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4300	ug/kg	1
Hexachloroethane	67-72-1	8270D	ND		1700	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1700	ug/kg	1
Isophorone	78-59-1	8270D	ND		1700	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		1700	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		1700	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		3500	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1700	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1700	ug/kg	1
Naphthalene	91-20-3	8270D	ND		1700	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1700	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1700	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1700	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		1700	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1700	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4300	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4300	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		1700	ug/kg	1
Phenol	108-95-2	8270D	ND		1700	ug/kg	1
Pyrene	129-00-0	8270D	ND		1700	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1700	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1700	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		35	30-117
2-Fluorobiphenyl		40	33-102
2-Fluorophenol		30	28-104
Nitrobenzene-d5		35	22-109
Phenol-d5		34	27-103
Terphenyl-d14		45	41-120

PCBs by GC

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	5000	08/31/2016 2258	MEM	08/29/2016 1840	20900

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		53000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		53000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		53000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		53000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	750000		53000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		53000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		53000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	599	41-132
Tetrachloro-m-xylene		82	35-106

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	500	08/31/2016 1753	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		530	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	1400	P	530	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		530	ug/kg	1
beta-BHC	319-85-7	8081B	ND		530	ug/kg	1
delta-BHC	319-86-8	8081B	910	P	530	ug/kg	1
Chlordane	57-74-9	8081B	ND		1100	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		530	ug/kg	1
trans-Chlordane	5103-74-2	8081B	4500	P	530	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		530	ug/kg	1
4,4'-DDE	72-55-9	8081B	5700		530	ug/kg	1
4,4'-DDT	50-29-3	8081B	3600		530	ug/kg	1
Dieldrin	60-57-1	8081B	10000		530	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		530	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-006
Description: BL-WA-3	Matrix: Solid
Date Sampled: 08/24/2016 1607	% Solids: 94.6 08/25/2016 2155
Date Received: 08/25/2016	

Organochlorine Pesticides by GC

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	500	08/31/2016 1753	PMS	08/29/2016 1840	20904

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Endosulfan II	33213-65-9	8081B	1100	P	530	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		530	ug/kg	1
Endrin	72-20-8	8081B	1500		530	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	680		530	ug/kg	1
Endrin ketone	53494-70-5	8081B	600		530	ug/kg	1
Heptachlor	76-44-8	8081B	8700	P	530	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	1500	P	530	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		2100	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		5300	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	375	57-110
Tetrachloro-m-xylene	N	0.00	37-91

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	09/01/2016 0056	CJZ	08/30/2016 1736	20955
1	7471B	7471B	5	08/29/2016 1655	CLM	08/29/2016 1149	20777
2	3050B	6010C	1	09/06/2016 1744	CJZ	09/02/2016 1022	21222
3	3050B	6010C	5	09/06/2016 1759	CJZ	09/02/2016 1022	21222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	4700		21	mg/kg	2
Antimony	7440-36-0	6010C	59		5.1	mg/kg	3
Arsenic	7440-38-2	6010C	ND		3.9	mg/kg	3
Barium	7440-39-3	6010C	2000		6.7	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.19	mg/kg	1
Cadmium	7440-43-9	6010C	21		0.26	mg/kg	2
Calcium	7440-70-2	6010C	1200		260	mg/kg	2
Chromium	7440-47-3	6010C	1800		2.6	mg/kg	3
Cobalt	7440-48-4	6010C	ND		1.3	mg/kg	2
Copper	7440-50-8	6010C	1100		0.51	mg/kg	2
Iron	7439-89-6	6010C	13000		5.1	mg/kg	2
Lead	7439-92-1	6010C	1100		2.6	mg/kg	3
Magnesium	7439-95-4	6010C	ND		260	mg/kg	2
Manganese	7439-96-5	6010C	8.2		0.77	mg/kg	2
Mercury	7439-97-6	7471B	1.7		0.44	mg/kg	1
Nickel	7440-02-0	6010C	5.4		2.1	mg/kg	2
Potassium	7440-09-7	6010C	ND		260	mg/kg	2

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-006
Description: BL-WA-3	Matrix: Solid
Date Sampled: 08/24/2016 1607	% Solids: 94.6 08/25/2016 2155
Date Received: 08/25/2016	

TAL Metals

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	09/01/2016 0056	CJZ	08/30/2016 1736	20955
1	7471B	7471B	5	08/29/2016 1655	CLM	08/29/2016 1149	20777
2	3050B	6010C	1	09/06/2016 1744	CJZ	09/02/2016 1022	21222
3	3050B	6010C	5	09/06/2016 1759	CJZ	09/02/2016 1022	21222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Selenium	7782-49-2	6010C	ND		1.0	mg/kg	2
Silver	7440-22-4	6010C	ND		0.51	mg/kg	2
Sodium	7440-23-5	6010C	ND		260	mg/kg	2
Thallium	7440-28-0	6010C	ND		2.6	mg/kg	2
Vanadium	7440-62-2	6010C	6.4		2.6	mg/kg	2
Zinc	7440-66-6	6010C	3200		13	mg/kg	3

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the PQL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-007
Description: BL-SS-67	Matrix: Solid
Date Sampled: 08/24/2016 1614	% Solids: 89.4 08/25/2016 2155
Date Received: 08/25/2016	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/26/2016 1833	SES		20754	5.91

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	94		19	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		19	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		4.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		4.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		4.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		4.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.5	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		4.7	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		4.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		4.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.5	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		4.7	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	ug/kg	1

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: synTerra	Laboratory ID: RH25003-007
Description: BL-SS-67	Matrix: Solid
Date Sampled: 08/24/2016 1614	% Solids: 89.4 08/25/2016 2155
Date Received: 08/25/2016	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/26/2016 1833	SES		20754	5.91

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		4.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		4.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.7	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		9.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	53-142
Bromofluorobenzene		103	47-138
Toluene-d8		112	68-124

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: RQ20971-001
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Cyanide - Total	ND		1	0.50	mg/kg	08/30/2016 1754

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: RQ20971-002
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	5.0	4.9		1	98	90-110	08/30/2016 1755

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ20754-001
Batch: 20754
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	20	ug/kg	08/26/2016 1101
Benzene	ND		1	5.0	ug/kg	08/26/2016 1101
Bromodichloromethane	ND		1	5.0	ug/kg	08/26/2016 1101
Bromoform	ND		1	5.0	ug/kg	08/26/2016 1101
Bromomethane (Methyl bromide)	ND		1	5.0	ug/kg	08/26/2016 1101
2-Butanone (MEK)	ND		1	20	ug/kg	08/26/2016 1101
Carbon disulfide	ND		1	5.0	ug/kg	08/26/2016 1101
Carbon tetrachloride	ND		1	5.0	ug/kg	08/26/2016 1101
Chlorobenzene	ND		1	5.0	ug/kg	08/26/2016 1101
Chloroethane	ND		1	5.0	ug/kg	08/26/2016 1101
Chloroform	ND		1	5.0	ug/kg	08/26/2016 1101
Chloromethane (Methyl chloride)	ND		1	5.0	ug/kg	08/26/2016 1101
Cyclohexane	ND		1	5.0	ug/kg	08/26/2016 1101
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	ug/kg	08/26/2016 1101
Dibromochloromethane	ND		1	5.0	ug/kg	08/26/2016 1101
1,2-Dibromoethane (EDB)	ND		1	5.0	ug/kg	08/26/2016 1101
1,3-Dichlorobenzene	ND		1	5.0	ug/kg	08/26/2016 1101
1,2-Dichlorobenzene	ND		1	5.0	ug/kg	08/26/2016 1101
1,4-Dichlorobenzene	ND		1	5.0	ug/kg	08/26/2016 1101
Dichlorodifluoromethane	ND		1	5.0	ug/kg	08/26/2016 1101
1,1-Dichloroethane	ND		1	5.0	ug/kg	08/26/2016 1101
1,2-Dichloroethane	ND		1	5.0	ug/kg	08/26/2016 1101
1,1-Dichloroethene	ND		1	5.0	ug/kg	08/26/2016 1101
cis-1,2-Dichloroethene	ND		1	5.0	ug/kg	08/26/2016 1101
trans-1,2-Dichloroethene	ND		1	5.0	ug/kg	08/26/2016 1101
1,2-Dichloropropane	ND		1	5.0	ug/kg	08/26/2016 1101
cis-1,3-Dichloropropene	ND		1	5.0	ug/kg	08/26/2016 1101
trans-1,3-Dichloropropene	ND		1	5.0	ug/kg	08/26/2016 1101
Ethylbenzene	ND		1	5.0	ug/kg	08/26/2016 1101
2-Hexanone	ND		1	10	ug/kg	08/26/2016 1101
Isopropylbenzene	ND		1	5.0	ug/kg	08/26/2016 1101
Methyl acetate	ND		1	5.0	ug/kg	08/26/2016 1101
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	ug/kg	08/26/2016 1101
4-Methyl-2-pentanone	ND		1	10	ug/kg	08/26/2016 1101
Methylcyclohexane	ND		1	5.0	ug/kg	08/26/2016 1101
Methylene chloride	ND		1	5.0	ug/kg	08/26/2016 1101
Styrene	ND		1	5.0	ug/kg	08/26/2016 1101
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/kg	08/26/2016 1101
Tetrachloroethene	ND		1	5.0	ug/kg	08/26/2016 1101
Toluene	ND		1	5.0	ug/kg	08/26/2016 1101
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	ug/kg	08/26/2016 1101
1,2,4-Trichlorobenzene	ND		1	5.0	ug/kg	08/26/2016 1101
1,1,2-Trichloroethane	ND		1	5.0	ug/kg	08/26/2016 1101
1,1,1-Trichloroethane	ND		1	5.0	ug/kg	08/26/2016 1101

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ20754-001
Batch: 20754
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	5.0	ug/kg	08/26/2016 1101
Trichlorofluoromethane	ND		1	5.0	ug/kg	08/26/2016 1101
Vinyl chloride	ND		1	5.0	ug/kg	08/26/2016 1101
Xylenes (total)	ND		1	10	ug/kg	08/26/2016 1101

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	47-138
1,2-Dichloroethane-d4		103	53-142
Toluene-d8		103	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20754-002
Batch: 20754
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	100	60-140	08/26/2016 1005
Benzene	50	47		1	93	69-123	08/26/2016 1005
Bromodichloromethane	50	46		1	93	69-121	08/26/2016 1005
Bromoform	50	39		1	78	61-119	08/26/2016 1005
Bromomethane (Methyl bromide)	50	47		1	95	10-168	08/26/2016 1005
2-Butanone (MEK)	100	90		1	90	57-148	08/26/2016 1005
Carbon disulfide	50	55		1	109	58-122	08/26/2016 1005
Carbon tetrachloride	50	54		1	108	58-136	08/26/2016 1005
Chlorobenzene	50	44		1	89	59-129	08/26/2016 1005
Chloroethane	50	47		1	93	60-140	08/26/2016 1005
Chloroform	50	49		1	98	71-125	08/26/2016 1005
Chloromethane (Methyl chloride)	50	50		1	101	34-134	08/26/2016 1005
Cyclohexane	50	54		1	107	53-139	08/26/2016 1005
1,2-Dibromo-3-chloropropane (DBCP)	50	39		1	78	55-125	08/26/2016 1005
Dibromochloromethane	50	44		1	88	66-119	08/26/2016 1005
1,2-Dibromoethane (EDB)	50	43		1	86	74-124	08/26/2016 1005
1,3-Dichlorobenzene	50	44		1	87	51-134	08/26/2016 1005
1,2-Dichlorobenzene	50	43		1	85	57-131	08/26/2016 1005
1,4-Dichlorobenzene	50	43		1	86	52-133	08/26/2016 1005
Dichlorodifluoromethane	50	59		1	118	10-157	08/26/2016 1005
1,1-Dichloroethane	50	52		1	103	71-127	08/26/2016 1005
1,2-Dichloroethane	50	49		1	98	67-129	08/26/2016 1005
1,1-Dichloroethene	50	56		1	111	69-138	08/26/2016 1005
cis-1,2-Dichloroethene	50	50		1	99	70-122	08/26/2016 1005
trans-1,2-Dichloroethene	50	52		1	104	68-131	08/26/2016 1005
1,2-Dichloropropane	50	46		1	92	72-124	08/26/2016 1005
cis-1,3-Dichloropropene	50	46		1	91	70-126	08/26/2016 1005
trans-1,3-Dichloropropene	50	45		1	90	70-124	08/26/2016 1005
Ethylbenzene	50	44		1	89	59-128	08/26/2016 1005
2-Hexanone	100	76		1	76	54-137	08/26/2016 1005
Isopropylbenzene	50	45		1	90	50-136	08/26/2016 1005
Methyl acetate	50	49		1	98	59-137	08/26/2016 1005
Methyl tertiary butyl ether (MTBE)	50	48		1	96	70-130	08/26/2016 1005
4-Methyl-2-pentanone	100	80		1	80	60-134	08/26/2016 1005
Methylcyclohexane	50	51		1	102	41-144	08/26/2016 1005
Methylene chloride	50	47		1	94	70-130	08/26/2016 1005
Styrene	50	44		1	87	54-136	08/26/2016 1005
1,1,2,2-Tetrachloroethane	50	39		1	79	69-132	08/26/2016 1005
Tetrachloroethene	50	50		1	100	45-150	08/26/2016 1005
Toluene	50	48		1	95	61-129	08/26/2016 1005
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	56		1	111	49-136	08/26/2016 1005
1,2,4-Trichlorobenzene	50	42		1	85	34-145	08/26/2016 1005
1,1,2-Trichloroethane	50	41		1	82	55-128	08/26/2016 1005
1,1,1-Trichloroethane	50	54		1	108	63-128	08/26/2016 1005

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20754-002
Batch: 20754
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	50		1	100	62-126	08/26/2016 1005
Trichlorofluoromethane	50	54		1	108	45-138	08/26/2016 1005
Vinyl chloride	50	48		1	97	42-132	08/26/2016 1005
Xylenes (total)	100	89		1	89	58-128	08/26/2016 1005

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	47-138
1,2-Dichloroethane-d4		88	53-142
Toluene-d8		93	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ20899-001
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1'-Biphenyl	ND		1	330	ug/kg	08/30/2016 0944
2,4,5-Trichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4,6-Trichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dimethylphenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dinitrophenol	ND		1	830	ug/kg	08/30/2016 0944
2,4-Dinitrotoluene	ND		1	330	ug/kg	08/30/2016 0944
2,6-Dinitrotoluene	ND		1	330	ug/kg	08/30/2016 0944
2-Chloronaphthalene	ND		1	330	ug/kg	08/30/2016 0944
2-Chlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2-Methylnaphthalene	ND		1	330	ug/kg	08/30/2016 0944
2-Methylphenol	ND		1	330	ug/kg	08/30/2016 0944
2-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
2-Nitrophenol	ND		1	330	ug/kg	08/30/2016 0944
3+4-Methylphenol	ND		1	670	ug/kg	08/30/2016 0944
3,3'-Dichlorobenzidine	ND		1	830	ug/kg	08/30/2016 0944
3-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
4,6-Dinitro-2-methylphenol	ND		1	830	ug/kg	08/30/2016 0944
4-Bromophenyl phenyl ether	ND		1	330	ug/kg	08/30/2016 0944
4-Chloro-3-methyl phenol	ND		1	330	ug/kg	08/30/2016 0944
4-Chloroaniline	ND		1	330	ug/kg	08/30/2016 0944
4-Chlorophenyl phenyl ether	ND		1	330	ug/kg	08/30/2016 0944
4-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
4-Nitrophenol	ND		1	830	ug/kg	08/30/2016 0944
Acenaphthene	ND		1	330	ug/kg	08/30/2016 0944
Acenaphthylene	ND		1	330	ug/kg	08/30/2016 0944
Acetophenone	ND		1	330	ug/kg	08/30/2016 0944
Anthracene	ND		1	330	ug/kg	08/30/2016 0944
Atrazine	ND		1	330	ug/kg	08/30/2016 0944
Benzaldehyde	ND		1	830	ug/kg	08/30/2016 0944
Benzo(a)anthracene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(a)pyrene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(b)fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(g,h,i)perylene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(k)fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
bis (2-Chloro-1-methylethyl) ether	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Chloroethoxy)methane	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Chloroethyl)ether	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Ethylhexyl)phthalate	ND		1	330	ug/kg	08/30/2016 0944
Butyl benzyl phthalate	ND		1	330	ug/kg	08/30/2016 0944
Caprolactam	ND		1	830	ug/kg	08/30/2016 0944
Carbazole	ND		1	330	ug/kg	08/30/2016 0944
Chrysene	ND		1	330	ug/kg	08/30/2016 0944
Di-n-butyl phthalate	ND		1	330	ug/kg	08/30/2016 0944

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ20899-001
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Di-n-octylphthalate	ND		1	330	ug/kg	08/30/2016 0944
Dibenzo(a,h)anthracene	ND		1	330	ug/kg	08/30/2016 0944
Dibenzofuran	ND		1	330	ug/kg	08/30/2016 0944
Diethylphthalate	ND		1	330	ug/kg	08/30/2016 0944
Dimethyl phthalate	ND		1	330	ug/kg	08/30/2016 0944
Fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
Fluorene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorobenzene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorobutadiene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorocyclopentadiene	ND		1	830	ug/kg	08/30/2016 0944
Hexachloroethane	ND		1	330	ug/kg	08/30/2016 0944
Indeno(1,2,3-c,d)pyrene	ND		1	330	ug/kg	08/30/2016 0944
Isophorone	ND		1	330	ug/kg	08/30/2016 0944
N-Nitrosodi-n-propylamine	ND		1	330	ug/kg	08/30/2016 0944
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	330	ug/kg	08/30/2016 0944
Naphthalene	ND		1	330	ug/kg	08/30/2016 0944
Nitrobenzene	ND		1	330	ug/kg	08/30/2016 0944
Pentachlorophenol	ND		1	830	ug/kg	08/30/2016 0944
Phenanthrene	ND		1	330	ug/kg	08/30/2016 0944
Phenol	ND		1	330	ug/kg	08/30/2016 0944
Pyrene	ND		1	330	ug/kg	08/30/2016 0944

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		61	30-117
2-Fluorobiphenyl		72	33-102
2-Fluorophenol		71	28-104
Nitrobenzene-d5		78	22-109
Phenol-d5		78	27-103
Terphenyl-d14		84	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20899-002
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	1700	1100		1	66	49-110	08/30/2016 1008
2,4,5-Trichlorophenol	1700	1100		1	67	46-122	08/30/2016 1008
2,4,6-Trichlorophenol	1700	1100		1	65	38-115	08/30/2016 1008
2,4-Dichlorophenol	3300	2100		1	62	41-113	08/30/2016 1008
2,4-Dimethylphenol	1700	1300		1	75	33-123	08/30/2016 1008
2,4-Dinitrophenol	1700	970		1	58	45-127	08/30/2016 1008
2,4-Dinitrotoluene	1700	1400		1	81	48-124	08/30/2016 1008
2,6-Dinitrotoluene	1700	1200		1	73	47-125	08/30/2016 1008
2-Chloronaphthalene	1700	1100		1	64	31-127	08/30/2016 1008
2-Chlorophenol	1700	1100		1	64	37-106	08/30/2016 1008
2-Methylnaphthalene	1700	1000		1	62	40-106	08/30/2016 1008
2-Methylphenol	1700	1300		1	76	32-107	08/30/2016 1008
2-Nitroaniline	1700	1300		1	77	45-123	08/30/2016 1008
2-Nitrophenol	1700	1000		1	63	35-108	08/30/2016 1008
3+4-Methylphenol	1700	1100		1	69	39-108	08/30/2016 1008
3,3'-Dichlorobenzidine	1700	1200		1	75	46-113	08/30/2016 1008
3-Nitroaniline	1700	1200		1	73	24-127	08/30/2016 1008
4,6-Dinitro-2-methylphenol	1700	1300		1	80	40-130	08/30/2016 1008
4-Bromophenyl phenyl ether	1700	1100		1	69	46-118	08/30/2016 1008
4-Chloro-3-methyl phenol	1700	1300		1	78	49-118	08/30/2016 1008
4-Chloroaniline	1700	1600		1	96	10-125	08/30/2016 1008
4-Chlorophenyl phenyl ether	1700	1100		1	65	47-116	08/30/2016 1008
4-Nitroaniline	1700	1400		1	85	48-127	08/30/2016 1008
4-Nitrophenol	3300	3300		1	100	18-154	08/30/2016 1008
Acenaphthene	1700	1200		1	72	46-114	08/30/2016 1008
Acenaphthylene	1700	1200		1	74	44-122	08/30/2016 1008
Acetophenone	1700	1000		1	60	48-111	08/30/2016 1008
Anthracene	1700	1300		1	81	50-119	08/30/2016 1008
Atrazine	1700	1300		1	76	48-116	08/30/2016 1008
Benzaldehyde	1700	1200		1	71	40-117	08/30/2016 1008
Benzo(a)anthracene	1700	1300		1	80	47-121	08/30/2016 1008
Benzo(a)pyrene	1700	1400		1	85	55-134	08/30/2016 1008
Benzo(b)fluoranthene	1700	1400		1	81	28-139	08/30/2016 1008
Benzo(g,h,i)perylene	1700	1300		1	78	36-125	08/30/2016 1008
Benzo(k)fluoranthene	1700	1400		1	82	47-130	08/30/2016 1008
bis (2-Chloro-1-methylethyl) ether	1700	1300		1	75	31-102	08/30/2016 1008
bis(2-Chloroethoxy)methane	1700	1100		1	68	39-108	08/30/2016 1008
bis(2-Chloroethyl)ether	1700	1300		1	76	32-105	08/30/2016 1008
bis(2-Ethylhexyl)phthalate	1700	1400		1	87	45-128	08/30/2016 1008
Butyl benzyl phthalate	1700	1600		1	95	46-128	08/30/2016 1008
Caprolactam	1700	1600		1	95	43-121	08/30/2016 1008
Carbazole	1700	1300		1	80	47-128	08/30/2016 1008
Chrysene	1700	1300		1	80	45-126	08/30/2016 1008
Di-n-butyl phthalate	1700	1500		1	89	51-129	08/30/2016 1008

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20899-002
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	1700	1300		1	81	49-142	08/30/2016 1008
Dibenzo(a,h)anthracene	1700	1400		1	83	45-122	08/30/2016 1008
Dibenzofuran	1700	1100		1	68	45-112	08/30/2016 1008
Diethylphthalate	1700	1400		1	81	49-123	08/30/2016 1008
Dimethyl phthalate	1700	1200		1	75	48-120	08/30/2016 1008
Fluoranthene	1700	1300		1	77	50-123	08/30/2016 1008
Fluorene	1700	1200		1	69	48-117	08/30/2016 1008
Hexachlorobenzene	1700	1300		1	76	44-122	08/30/2016 1008
Hexachlorobutadiene	1700	970		1	58	33-103	08/30/2016 1008
Hexachlorocyclopentadiene	8300	3900		1	46	18-121	08/30/2016 1008
Hexachloroethane	1700	1100		1	64	30-96	08/30/2016 1008
Indeno(1,2,3-c,d)pyrene	1700	1400		1	85	45-123	08/30/2016 1008
Isophorone	1700	1200		1	70	41-113	08/30/2016 1008
N-Nitrosodi-n-propylamine	1700	1300		1	80	32-115	08/30/2016 1008
N-Nitrosodiphenylamine (Diphenylamine)	1700	1300		1	80	53-150	08/30/2016 1008
Naphthalene	1700	1100		1	65	36-110	08/30/2016 1008
Nitrobenzene	1700	1300		1	75	33-114	08/30/2016 1008
Pentachlorophenol	3300	2100		1	62	27-138	08/30/2016 1008
Phenanthrene	1700	1300		1	77	49-117	08/30/2016 1008
Phenol	1700	1100		1	65	36-108	08/30/2016 1008
Pyrene	1700	1400		1	87	47-119	08/30/2016 1008

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		69	30-117
2-Fluorobiphenyl		63	33-102
2-Fluorophenol		59	28-104
Nitrobenzene-d5		72	22-109
Phenol-d5		65	27-103
Terphenyl-d14		80	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ20900-001
Batch: 20900
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1221	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1232	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1242	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1248	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1254	ND		1	10	ug/kg	08/30/2016 1039
Aroclor 1260	ND		1	10	ug/kg	08/30/2016 1039

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		97	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ20900-002
Batch: 20900
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	130		1	130	70-130	08/30/2016 1052
Aroclor 1260	100	110		1	111	70-130	08/30/2016 1052

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		95	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: RQ20904-001
Batch: 20904
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.0	ug/kg	08/30/2016 1415
4,4'-DDE	ND		1	1.0	ug/kg	08/30/2016 1415
4,4'-DDT	ND		1	1.0	ug/kg	08/30/2016 1415
Aldrin	ND		1	1.0	ug/kg	08/30/2016 1415
alpha-BHC	ND		1	1.0	ug/kg	08/30/2016 1415
beta-BHC	ND		1	1.0	ug/kg	08/30/2016 1415
Chlordane	ND		1	2.0	ug/kg	08/30/2016 1415
cis-Chlordane	ND		1	1.0	ug/kg	08/30/2016 1415
delta-BHC	ND		1	1.0	ug/kg	08/30/2016 1415
Dieldrin	ND		1	1.0	ug/kg	08/30/2016 1415
Endosulfan I	ND		1	1.0	ug/kg	08/30/2016 1415
Endosulfan II	ND		1	1.0	ug/kg	08/30/2016 1415
Endosulfan sulfate	ND		1	1.0	ug/kg	08/30/2016 1415
Endrin	ND		1	1.0	ug/kg	08/30/2016 1415
Endrin aldehyde	ND		1	1.0	ug/kg	08/30/2016 1415
Endrin ketone	ND		1	1.0	ug/kg	08/30/2016 1415
gamma-BHC (Lindane)	ND		1	1.0	ug/kg	08/30/2016 1415
Heptachlor	ND		1	1.0	ug/kg	08/30/2016 1415
Heptachlor epoxide	ND		1	1.0	ug/kg	08/30/2016 1415
Methoxychlor	ND		1	4.0	ug/kg	08/30/2016 1415
Toxaphene	ND		1	10	ug/kg	08/30/2016 1415
trans-Chlordane	ND		1	1.0	ug/kg	08/30/2016 1415

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		98	57-110
Tetrachloro-m-xylene		85	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: RQ20904-002
Batch: 20904
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/29/2016 1840

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	20	21		1	105	70-130	08/30/2016 1430
4,4'-DDE	20	22		1	108	70-130	08/30/2016 1430
4,4'-DDT	20	22		1	109	70-130	08/30/2016 1430
Aldrin	20	20		1	101	70-130	08/30/2016 1430
alpha-BHC	20	20		1	100	70-130	08/30/2016 1430
beta-BHC	20	20		1	98	70-130	08/30/2016 1430
cis-Chlordane	20	20		1	100	70-130	08/30/2016 1430
delta-BHC	20	18		1	92	50-150	08/30/2016 1430
Dieldrin	20	21		1	105	70-130	08/30/2016 1430
Endosulfan I	20	19		1	94	70-130	08/30/2016 1430
Endosulfan II	20	19		1	94	70-130	08/30/2016 1430
Endosulfan sulfate	20	21		1	107	70-130	08/30/2016 1430
Endrin	20	21		1	104	70-130	08/30/2016 1430
Endrin aldehyde	20	17		1	87	70-130	08/30/2016 1430
Endrin ketone	20	21		1	105	70-130	08/30/2016 1430
gamma-BHC (Lindane)	20	21		1	103	70-130	08/30/2016 1430
Heptachlor	20	20		1	102	70-130	08/30/2016 1430
Heptachlor epoxide	20	20		1	99	70-130	08/30/2016 1430
Methoxychlor	20	21		1	107	70-130	08/30/2016 1430
trans-Chlordane	20	20		1	101	70-130	08/30/2016 1430

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		103	57-110
Tetrachloro-m-xylene		87	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21021-001
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1221	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1232	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1242	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1248	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1254	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1260	ND		1	10	ug/kg	08/31/2016 1646

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		58	41-132
Tetrachloro-m-xylene		56	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21021-002
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	110		1	107	70-130	08/31/2016 1659
Aroclor 1260	100	110		1	108	70-130	08/31/2016 1659

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		92	41-132
Tetrachloro-m-xylene		90	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ20955-001
Batch: 20955
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 08/30/2016 1736

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Beryllium	ND		1	0.25	mg/kg	09/01/2016 0011

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ20955-002
Batch: 20955
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 08/30/2016 1736

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Beryllium	100	92		1	92	80-120	09/01/2016 0015

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ21222-001
Batch: 21222
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 09/02/2016 1022

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aluminum	ND		1	20	mg/kg	09/06/2016 1606
Antimony	ND		1	1.0	mg/kg	09/06/2016 1606
Arsenic	ND		1	0.75	mg/kg	09/06/2016 1606
Barium	ND		1	1.3	mg/kg	09/06/2016 1606
Cadmium	ND		1	0.25	mg/kg	09/06/2016 1606
Calcium	ND		1	250	mg/kg	09/06/2016 1606
Chromium	ND		1	0.50	mg/kg	09/06/2016 1606
Cobalt	ND		1	1.3	mg/kg	09/06/2016 1606
Copper	ND		1	0.50	mg/kg	09/06/2016 1606
Iron	ND		1	5.0	mg/kg	09/06/2016 1606
Lead	ND		1	0.50	mg/kg	09/06/2016 1606
Magnesium	ND		1	250	mg/kg	09/06/2016 1606
Manganese	ND		1	0.75	mg/kg	09/06/2016 1606
Nickel	ND		1	2.0	mg/kg	09/06/2016 1606
Potassium	ND		1	250	mg/kg	09/06/2016 1606
Selenium	ND		1	1.0	mg/kg	09/06/2016 1606
Silver	ND		1	0.50	mg/kg	09/06/2016 1606
Sodium	ND		1	250	mg/kg	09/06/2016 1606
Thallium	ND		1	2.5	mg/kg	09/06/2016 1606
Vanadium	ND		1	2.5	mg/kg	09/06/2016 1606
Zinc	ND		1	2.5	mg/kg	09/06/2016 1606

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ21222-002
Batch: 21222
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 09/02/2016 1022

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aluminum	1000	930		1	93	80-120	09/06/2016 1619
Antimony	50	46		1	93	80-120	09/06/2016 1619
Arsenic	250	240		1	96	80-120	09/06/2016 1619
Barium	500	470		1	93	80-120	09/06/2016 1619
Cadmium	50	47		1	94	80-120	09/06/2016 1619
Calcium	2000	1900		1	93	80-120	09/06/2016 1619
Chromium	250	240		1	96	80-120	09/06/2016 1619
Cobalt	100	99		1	99	80-120	09/06/2016 1619
Copper	100	95		1	95	80-120	09/06/2016 1619
Iron	1000	920		1	92	80-120	09/06/2016 1619
Lead	250	240		1	98	80-120	09/06/2016 1619
Magnesium	2000	1800		1	91	80-120	09/06/2016 1619
Manganese	100	96		1	96	80-120	09/06/2016 1619
Nickel	100	97		1	97	80-120	09/06/2016 1619
Potassium	2000	1900		1	96	80-120	09/06/2016 1619
Selenium	50	47		1	94	80-120	09/06/2016 1619
Silver	50	46		1	92	80-120	09/06/2016 1619
Sodium	2000	1900		1	96	80-120	09/06/2016 1619
Thallium	40	41		1	102	80-120	09/06/2016 1619
Vanadium	100	95		1	95	80-120	09/06/2016 1619
Zinc	100	97		1	97	80-120	09/06/2016 1619

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ20777-001
Batch: 20777
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 1149

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.083	mg/kg	08/29/2016 1452

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ20777-002
Batch: 20777
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 1149

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.83	0.90		1	108	80-120	08/29/2016 1454

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

SHEALY

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63885

Client: SynTerra	Report to Contact: Howard Frank	Telephone No. / E-mail: HFrank@SynTerracorp.com	Quote No.
Address: 148 River St. Ste. 220	Sampler's Signature: X [signature]	Analysis (Attach list if more space is needed)	Page 1 of 1
City: Greenville; State: SC; Zip Code: 29601	Printed Name		RH25003
Project Name: Former Burlington Lagoon			
Project No.: 1112.11	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	Unpres.	HNO3	HCl	NaOH	5035 Kit	PCBs	SVOCs/Pest	TAL Metals	VOCs	Remarks / Cooler I.D.
BL-SS-28	8/23/16	1115	G		X		X						X				
BL-SS-27D	8/24/16	750	G		X		X						X				
BL-SB-36	8/24/16	1320	G		X		X						X				
BL-SB-28	8/23/16	1120	G		X		X						X				
BL-SS-39	8/24/16	1433	G		X		X						X				
BL-WA-3	8/24/16	1607	G		X		X						X	X	X		
BL-SS-67	8/24/16	1614	G		X					X						X	

Turn Around Time Required (Prior lab approval required for expedited TAT.)	Sample Disposal	Possible Hazard Identification	QC Requirements (Specify)
☒ Standard ☐ Rush (Specify)	☐ Return to Client ☒ Disposal by Lab	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	

	Date	Time		Date	Time
1. Relinquished by: [signature]	8/25/16	829	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	8/25/16	0829

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp. 2.8 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: MB0018C-04

Page 1 of 1
Effective Date: 02/05/2016
Expiry Date 02/05/2021

Sample Receipt Checklist (SRC)

Client: Synterra Cooler Inspected by/date: mcm/8/25/16 Lot #: RH25003

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: _____ Cl strip ID: _____
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
12.2 °C / / °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM was notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☐	No ☑		13. Was adequate sample volume available?
Yes ☐	No ☑		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples not listed on COC?
Yes ☐	No ☐	NA ☑	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	NA/OK	22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC >0.2 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____

Sample labels applied by: mcm Verified by: _____ Date: 8/25/16

Comments: SR used VOA screening vial for -007

Report of Analysis

synTerra
INNOVATE
148 River Street, Suite 220
Greenville, SC 29601
Attention: Howard Frank

Project Name: Burlington Lagoon Site

Project Number: 1112.11

Lot Number: RH26003

Date Completed: 09/12/2016

Kelly M. Nance
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
synTerra
Lot Number: RH26003

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Receiving
Sample "BL-SB-80" was listed on the chain of custody twice. Results were reported under sample -010.

GC/MS Volatiles
The MS/MSD associated with sample -023 had compounds recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

The RPD for acetone in the duplicate associated with sample -022 exceeded method control limits. The associated sample results were reported and no corrective action was required.

GC/MS Semivolatiles
The MS/MSD associated with sample -018 had compounds recovered outside of the acceptance limits. The LCS was recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

Samples -017 and -019 were diluted 2x and 5x, respectively, due to matrix interference. The reporting limits have been raised accordingly.

Pesticides
The MS/MSD associated with samples -018 and -026 had compounds and surrogates recovered outside of the acceptance limits and RPDs exceeded method control limits. The LCS were recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

Due to high detections for target compounds, samples -017, -018, -019 and -025 were diluted 200x, 100x, 20x and 50x, respectively. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater may impact surrogate recoveries.

PCBs
The MS/MSD associated with samples -001 and -002 had compounds recovered outside of the acceptance limits and RPDs exceeded method control limits. The LCS was recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

Due to high detections for target compounds, samples -009, -010, -012, -013, -016, -017, -018, -019 and -020 were diluted 500x, 100x, 1000x, 1000x, 1000x, 1000x, 2000x, 100x and 20x, respectively. As a result, the associated surrogates were recovered outside of the acceptance limits. No corrective action was required, as dilutions of 5x and greater may impact surrogate recoveries.

Sample Summary
synTerra
Lot Number: RH26003

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	BL-SS-70	Solid	08/25/2016 1142	08/26/2016
002	BL-SS-48A	Solid	08/25/2016 1000	08/26/2016
003	BL-SS-74	Solid	08/25/2016 1110	08/26/2016
004	BL-SS-58	Solid	08/25/2016 1550	08/26/2016
005	BL-SS-48B	Solid	08/25/2016 1004	08/26/2016
006	BL-SS-52B	Solid	08/25/2016 1017	08/26/2016
007	BL-SS-63	Solid	08/24/2016 1600	08/26/2016
008	BL-SS-73	Solid	08/25/2016 1120	08/26/2016
009	BL-SS-52	Solid	08/25/2016 1700	08/26/2016
010	BL-SB-80	Solid	08/23/2016 1152	08/26/2016
011	BL-SS-59	Solid	08/24/2016 1545	08/26/2016
012	BL-SS-52A	Solid	08/25/2016 1025	08/26/2016
013	BL-SS-75	Solid	08/25/2016 1108	08/26/2016
014	BL-SB-80	Solid	08/23/2016 1152	
015	BL-SS-53A	Solid	08/25/2016 1020	08/26/2016
016	BL-SS-11A	Solid	08/25/2016 1207	08/26/2016
017	BL-WA-01	Solid	08/24/2016 1318	08/26/2016
018	BL-SS-48	Solid	08/24/2016 1648	08/26/2016
019	BL-WA-2	Solid	08/24/2016 1301	08/26/2016
020	BL-SS-57	Solid	08/25/2016 1053	08/26/2016
021	BL-BKG-SS	Solid	08/25/2016 0857	08/26/2016
022	BL-BKG-SD	Solid	08/25/2016 0820	08/26/2016
023	BL-BKG-SB	Solid	08/25/2016 0905	08/26/2016
024	BL-SS-67	Solid	08/24/2016 1336	08/26/2016
025	BL-SS-53	Solid	08/24/2016 1657	08/26/2016
026	BL-SD-19	Solid	08/22/2016 1520	08/26/2016
027	BL-DS-19	Solid	08/22/2016 1525	08/26/2016
028	BL-SS-48	Solid	08/25/2016 0957	08/26/2016
029	BL-SS-75A	Solid	08/25/2016 1618	08/26/2016
030	BL-SS-75B	Solid	08/25/2016 1612	08/26/2016
031	BL-SS-75C	Solid	08/25/2016 1612	08/26/2016
032	BL-SS-75D	Solid	08/25/2016 1622	08/26/2016
033	BL-SS-67-DUP	Solid	08/24/2016 1336	08/26/2016

(33 samples)

Executive Summary
synTerra
Lot Number: RH26003

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	BL-SS-70	Solid	Aroclor 1248	8082A	37000		ug/kg	10
001	BL-SS-70	Solid	Aroclor 1254	8082A	48000		ug/kg	10
002	BL-SS-48A	Solid	Aroclor 1248	8082A	4900		ug/kg	11
002	BL-SS-48A	Solid	Aroclor 1254	8082A	7900		ug/kg	11
003	BL-SS-74	Solid	Aroclor 1248	8082A	2100		ug/kg	12
003	BL-SS-74	Solid	Aroclor 1254	8082A	5300		ug/kg	12
004	BL-SS-58	Solid	Aroclor 1248	8082A	12000		ug/kg	13
004	BL-SS-58	Solid	Aroclor 1254	8082A	7400		ug/kg	13
005	BL-SS-48B	Solid	Aroclor 1248	8082A	4100		ug/kg	14
005	BL-SS-48B	Solid	Aroclor 1254	8082A	6700		ug/kg	14
006	BL-SS-52B	Solid	Aroclor 1248	8082A	850		ug/kg	15
006	BL-SS-52B	Solid	Aroclor 1254	8082A	1400		ug/kg	15
008	BL-SS-73	Solid	Aroclor 1254	8082A	2400		ug/kg	17
009	BL-SS-52	Solid	Aroclor 1248	8082A	41000		ug/kg	18
009	BL-SS-52	Solid	Aroclor 1254	8082A	63000		ug/kg	18
010	BL-SB-80	Solid	Aroclor 1248	8082A	20000		ug/kg	19
010	BL-SB-80	Solid	Aroclor 1254	8082A	22000		ug/kg	19
011	BL-SS-59	Solid	Aroclor 1254	8082A	33		ug/kg	20
012	BL-SS-52A	Solid	Aroclor 1248	8082A	110000		ug/kg	21
012	BL-SS-52A	Solid	Aroclor 1254	8082A	110000		ug/kg	21
013	BL-SS-75	Solid	Aroclor 1248	8082A	160000		ug/kg	22
013	BL-SS-75	Solid	Aroclor 1254	8082A	180000		ug/kg	22
015	BL-SS-53A	Solid	Aroclor 1248	8082A	180		ug/kg	23
015	BL-SS-53A	Solid	Aroclor 1254	8082A	300		ug/kg	23
016	BL-SS-11A	Solid	Aroclor 1248	8082A	130000		ug/kg	24
016	BL-SS-11A	Solid	Aroclor 1254	8082A	100000		ug/kg	24
017	BL-WA-01	Solid	Aroclor 1248	8082A	260000		ug/kg	28
017	BL-WA-01	Solid	delta-BHC	8081B	230	P	ug/kg	29
017	BL-WA-01	Solid	trans-Chlordane	8081B	2900		ug/kg	29
017	BL-WA-01	Solid	4,4'-DDE	8081B	2500		ug/kg	29
017	BL-WA-01	Solid	4,4'-DDT	8081B	1700		ug/kg	29
017	BL-WA-01	Solid	Dieldrin	8081B	4600		ug/kg	29
017	BL-WA-01	Solid	Endosulfan II	8081B	510	P	ug/kg	29
017	BL-WA-01	Solid	Endrin	8081B	770		ug/kg	29
017	BL-WA-01	Solid	Endrin aldehyde	8081B	290		ug/kg	29
017	BL-WA-01	Solid	Endrin ketone	8081B	320		ug/kg	29
017	BL-WA-01	Solid	Heptachlor epoxide	8081B	560	P	ug/kg	29
017	BL-WA-01	Solid	Aluminum	6010C	28000		mg/kg	30
017	BL-WA-01	Solid	Arsenic	6010C	0.90		mg/kg	30
017	BL-WA-01	Solid	Barium	6010C	930		mg/kg	30
017	BL-WA-01	Solid	Cadmium	6010C	1.8		mg/kg	30
017	BL-WA-01	Solid	Calcium	6010C	2100		mg/kg	30
017	BL-WA-01	Solid	Chromium	6010C	87		mg/kg	30
017	BL-WA-01	Solid	Copper	6010C	410		mg/kg	30
017	BL-WA-01	Solid	Iron	6010C	13000		mg/kg	30

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
017	BL-WA-01	Solid	Lead	6010C	7.9		mg/kg	30
017	BL-WA-01	Solid	Manganese	6010C	63		mg/kg	30
017	BL-WA-01	Solid	Mercury	7471B	9.7		mg/kg	30
017	BL-WA-01	Solid	Nickel	6010C	3.7		mg/kg	30
017	BL-WA-01	Solid	Vanadium	6010C	5.3		mg/kg	30
017	BL-WA-01	Solid	Zinc	6010C	11000		mg/kg	30
018	BL-SS-48	Solid	Aroclor 1248	8082A	490000		ug/kg	34
018	BL-SS-48	Solid	Aroclor 1254	8082A	590000		ug/kg	34
018	BL-SS-48	Solid	trans-Chlordane	8081B	14000		ug/kg	35
018	BL-SS-48	Solid	4,4'-DDE	8081B	9300	P	ug/kg	35
018	BL-SS-48	Solid	4,4'-DDT	8081B	15000		ug/kg	35
018	BL-SS-48	Solid	Dieldrin	8081B	28000		ug/kg	35
018	BL-SS-48	Solid	Endosulfan I	8081B	2500	P	ug/kg	35
018	BL-SS-48	Solid	Endosulfan II	8081B	4400	P	ug/kg	35
018	BL-SS-48	Solid	Endrin	8081B	3100	P	ug/kg	35
018	BL-SS-48	Solid	Endrin aldehyde	8081B	2800		ug/kg	35
018	BL-SS-48	Solid	Heptachlor epoxide	8081B	1200	P	ug/kg	35
018	BL-SS-48	Solid	Aluminum	6010C	6300		mg/kg	36
018	BL-SS-48	Solid	Arsenic	6010C	2.1		mg/kg	36
018	BL-SS-48	Solid	Barium	6010C	25		mg/kg	36
018	BL-SS-48	Solid	Calcium	6010C	280		mg/kg	36
018	BL-SS-48	Solid	Chromium	6010C	11		mg/kg	36
018	BL-SS-48	Solid	Copper	6010C	12		mg/kg	36
018	BL-SS-48	Solid	Iron	6010C	4900		mg/kg	36
018	BL-SS-48	Solid	Lead	6010C	18		mg/kg	36
018	BL-SS-48	Solid	Manganese	6010C	43		mg/kg	36
018	BL-SS-48	Solid	Nickel	6010C	2.1		mg/kg	36
018	BL-SS-48	Solid	Vanadium	6010C	13		mg/kg	36
018	BL-SS-48	Solid	Zinc	6010C	31		mg/kg	36
019	BL-WA-2	Solid	Aroclor 1248	8082A	14000		ug/kg	40
019	BL-WA-2	Solid	delta-BHC	8081B	22	P	ug/kg	41
019	BL-WA-2	Solid	trans-Chlordane	8081B	80	P	ug/kg	41
019	BL-WA-2	Solid	4,4'-DDT	8081B	150		ug/kg	41
019	BL-WA-2	Solid	Dieldrin	8081B	240		ug/kg	41
019	BL-WA-2	Solid	Endrin	8081B	21	P	ug/kg	41
019	BL-WA-2	Solid	Aluminum	6010C	440		mg/kg	42
019	BL-WA-2	Solid	Barium	6010C	95		mg/kg	42
019	BL-WA-2	Solid	Cadmium	6010C	1.0		mg/kg	42
019	BL-WA-2	Solid	Calcium	6010C	2500		mg/kg	42
019	BL-WA-2	Solid	Chromium	6010C	70		mg/kg	42
019	BL-WA-2	Solid	Copper	6010C	330		mg/kg	42
019	BL-WA-2	Solid	Iron	6010C	2800		mg/kg	42
019	BL-WA-2	Solid	Lead	6010C	6.6		mg/kg	42
019	BL-WA-2	Solid	Manganese	6010C	12		mg/kg	42
019	BL-WA-2	Solid	Mercury	7471B	0.52		mg/kg	42
019	BL-WA-2	Solid	Nickel	6010C	2.2		mg/kg	42
019	BL-WA-2	Solid	Zinc	6010C	4800		mg/kg	42
020	BL-SS-57	Solid	Aroclor 1248	8082A	4500		ug/kg	46

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
020	BL-SS-57	Solid	Aroclor 1254	8082A	3700		ug/kg	46
020	BL-SS-57	Solid	trans-Chlordane	8081B	88		ug/kg	47
020	BL-SS-57	Solid	4,4'-DDE	8081B	20	P	ug/kg	47
020	BL-SS-57	Solid	4,4'-DDT	8081B	87		ug/kg	47
020	BL-SS-57	Solid	Dieldrin	8081B	140		ug/kg	47
020	BL-SS-57	Solid	Endrin	8081B	15	P	ug/kg	47
020	BL-SS-57	Solid	Endrin ketone	8081B	10		ug/kg	47
020	BL-SS-57	Solid	Heptachlor epoxide	8081B	7.2	P	ug/kg	47
020	BL-SS-57	Solid	Aluminum	6010C	10000		mg/kg	48
020	BL-SS-57	Solid	Arsenic	6010C	1.7		mg/kg	48
020	BL-SS-57	Solid	Barium	6010C	27		mg/kg	48
020	BL-SS-57	Solid	Calcium	6010C	280		mg/kg	48
020	BL-SS-57	Solid	Chromium	6010C	11		mg/kg	48
020	BL-SS-57	Solid	Copper	6010C	4.8		mg/kg	48
020	BL-SS-57	Solid	Iron	6010C	8500		mg/kg	48
020	BL-SS-57	Solid	Lead	6010C	8.0		mg/kg	48
020	BL-SS-57	Solid	Manganese	6010C	76		mg/kg	48
020	BL-SS-57	Solid	Nickel	6010C	3.0		mg/kg	48
020	BL-SS-57	Solid	Vanadium	6010C	22		mg/kg	48
020	BL-SS-57	Solid	Zinc	6010C	9.5		mg/kg	48
021	BL-BKG-SS	Solid	Aluminum	6010C	1100		mg/kg	56
021	BL-BKG-SS	Solid	Barium	6010C	3.2		mg/kg	56
021	BL-BKG-SS	Solid	Chromium	6010C	1.1		mg/kg	56
021	BL-BKG-SS	Solid	Copper	6010C	0.97		mg/kg	56
021	BL-BKG-SS	Solid	Iron	6010C	980		mg/kg	56
021	BL-BKG-SS	Solid	Lead	6010C	0.81		mg/kg	56
021	BL-BKG-SS	Solid	Manganese	6010C	9.0		mg/kg	56
021	BL-BKG-SS	Solid	Vanadium	6010C	2.4		mg/kg	56
021	BL-BKG-SS	Solid	Zinc	6010C	3.8		mg/kg	56
022	BL-BKG-SD	Solid	Acetone	8260B	49		ug/kg	58
022	BL-BKG-SD	Solid	Aroclor 1248	8082A	19		ug/kg	62
022	BL-BKG-SD	Solid	4,4'-DDE	8081B	7.0		ug/kg	63
022	BL-BKG-SD	Solid	Aluminum	6010C	18000		mg/kg	64
022	BL-BKG-SD	Solid	Arsenic	6010C	1.5		mg/kg	64
022	BL-BKG-SD	Solid	Barium	6010C	27		mg/kg	64
022	BL-BKG-SD	Solid	Calcium	6010C	360		mg/kg	64
022	BL-BKG-SD	Solid	Chromium	6010C	24		mg/kg	64
022	BL-BKG-SD	Solid	Copper	6010C	16		mg/kg	64
022	BL-BKG-SD	Solid	Iron	6010C	30000		mg/kg	64
022	BL-BKG-SD	Solid	Lead	6010C	11		mg/kg	64
022	BL-BKG-SD	Solid	Manganese	6010C	20		mg/kg	64
022	BL-BKG-SD	Solid	Nickel	6010C	5.1		mg/kg	64
022	BL-BKG-SD	Solid	Vanadium	6010C	44		mg/kg	64
022	BL-BKG-SD	Solid	Zinc	6010C	17		mg/kg	64
023	BL-BKG-SB	Solid	Acetone	8260B	15		ug/kg	66
023	BL-BKG-SB	Solid	Methyl acetate	8260B	3.9		ug/kg	66
023	BL-BKG-SB	Solid	Aroclor 1248	8082A	15		ug/kg	70
023	BL-BKG-SB	Solid	Aluminum	6010C	16000		mg/kg	72

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
023	BL-BKG-SB	Solid	Arsenic	6010C	1.5		mg/kg	72
023	BL-BKG-SB	Solid	Barium	6010C	16		mg/kg	72
023	BL-BKG-SB	Solid	Chromium	6010C	17		mg/kg	72
023	BL-BKG-SB	Solid	Copper	6010C	4.5		mg/kg	72
023	BL-BKG-SB	Solid	Iron	6010C	16000		mg/kg	72
023	BL-BKG-SB	Solid	Lead	6010C	5.9		mg/kg	72
023	BL-BKG-SB	Solid	Magnesium	6010C	280		mg/kg	72
023	BL-BKG-SB	Solid	Manganese	6010C	8.8		mg/kg	72
023	BL-BKG-SB	Solid	Nickel	6010C	4.2		mg/kg	72
023	BL-BKG-SB	Solid	Vanadium	6010C	39		mg/kg	72
023	BL-BKG-SB	Solid	Zinc	6010C	6.5		mg/kg	72
024	BL-SS-67	Solid	Aroclor 1248	8082A	1700		ug/kg	76
024	BL-SS-67	Solid	Aroclor 1254	8082A	2200		ug/kg	76
024	BL-SS-67	Solid	trans-Chlordane	8081B	37		ug/kg	77
024	BL-SS-67	Solid	4,4'-DDE	8081B	16	P	ug/kg	77
024	BL-SS-67	Solid	4,4'-DDT	8081B	68		ug/kg	77
024	BL-SS-67	Solid	Dieldrin	8081B	66		ug/kg	77
024	BL-SS-67	Solid	Aluminum	6010C	14000		mg/kg	78
024	BL-SS-67	Solid	Arsenic	6010C	2.0		mg/kg	78
024	BL-SS-67	Solid	Barium	6010C	43		mg/kg	78
024	BL-SS-67	Solid	Calcium	6010C	1400		mg/kg	78
024	BL-SS-67	Solid	Chromium	6010C	15		mg/kg	78
024	BL-SS-67	Solid	Copper	6010C	6.3		mg/kg	78
024	BL-SS-67	Solid	Iron	6010C	10000		mg/kg	78
024	BL-SS-67	Solid	Lead	6010C	9.4		mg/kg	78
024	BL-SS-67	Solid	Magnesium	6010C	360		mg/kg	78
024	BL-SS-67	Solid	Manganese	6010C	130		mg/kg	78
024	BL-SS-67	Solid	Nickel	6010C	4.3		mg/kg	78
024	BL-SS-67	Solid	Potassium	6010C	360		mg/kg	78
024	BL-SS-67	Solid	Vanadium	6010C	27		mg/kg	78
024	BL-SS-67	Solid	Zinc	6010C	18		mg/kg	78
025	BL-SS-53	Solid	bis(2-Ethylhexyl)phthalate	8270D	370		ug/kg	80
025	BL-SS-53	Solid	Aroclor 1248	8082A	42000		ug/kg	82
025	BL-SS-53	Solid	Aroclor 1254	8082A	48000		ug/kg	82
025	BL-SS-53	Solid	trans-Chlordane	8081B	1200		ug/kg	83
025	BL-SS-53	Solid	4,4'-DDD	8081B	61	P	ug/kg	83
025	BL-SS-53	Solid	4,4'-DDE	8081B	57	P	ug/kg	83
025	BL-SS-53	Solid	4,4'-DDT	8081B	1300		ug/kg	83
025	BL-SS-53	Solid	Dieldrin	8081B	2200		ug/kg	83
025	BL-SS-53	Solid	Endosulfan sulfate	8081B	130		ug/kg	83
025	BL-SS-53	Solid	Endrin	8081B	290	P	ug/kg	83
025	BL-SS-53	Solid	Endrin aldehyde	8081B	100	P	ug/kg	83
025	BL-SS-53	Solid	Endrin ketone	8081B	220		ug/kg	83
025	BL-SS-53	Solid	Heptachlor epoxide	8081B	120	P	ug/kg	83
025	BL-SS-53	Solid	Aluminum	6010C	11000		mg/kg	84
025	BL-SS-53	Solid	Arsenic	6010C	1.7		mg/kg	84
025	BL-SS-53	Solid	Barium	6010C	24		mg/kg	84
025	BL-SS-53	Solid	Calcium	6010C	390		mg/kg	84

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
025	BL-SS-53	Solid	Chromium	6010C	15		mg/kg	84
025	BL-SS-53	Solid	Copper	6010C	5.5		mg/kg	84
025	BL-SS-53	Solid	Iron	6010C	9000		mg/kg	84
025	BL-SS-53	Solid	Lead	6010C	8.7		mg/kg	84
025	BL-SS-53	Solid	Magnesium	6010C	240		mg/kg	84
025	BL-SS-53	Solid	Manganese	6010C	38		mg/kg	84
025	BL-SS-53	Solid	Nickel	6010C	3.3		mg/kg	84
025	BL-SS-53	Solid	Vanadium	6010C	24		mg/kg	84
025	BL-SS-53	Solid	Zinc	6010C	21		mg/kg	84
026	BL-SD-19	Solid	Aroclor 1248	8082A	47		ug/kg	88
026	BL-SD-19	Solid	Aroclor 1254	8082A	45		ug/kg	88
026	BL-SD-19	Solid	trans-Chlordane	8081B	1.3	P	ug/kg	89
026	BL-SD-19	Solid	4,4'-DDE	8081B	6.0		ug/kg	89
026	BL-SD-19	Solid	4,4'-DDT	8081B	2.3	P	ug/kg	89
026	BL-SD-19	Solid	Dieldrin	8081B	1.7	P	ug/kg	89
026	BL-SD-19	Solid	Aluminum	6010C	6100		mg/kg	90
026	BL-SD-19	Solid	Barium	6010C	31		mg/kg	90
026	BL-SD-19	Solid	Chromium	6010C	6.2		mg/kg	90
026	BL-SD-19	Solid	Copper	6010C	3.4		mg/kg	90
026	BL-SD-19	Solid	Iron	6010C	3100		mg/kg	90
026	BL-SD-19	Solid	Lead	6010C	11		mg/kg	90
026	BL-SD-19	Solid	Manganese	6010C	20		mg/kg	90
026	BL-SD-19	Solid	Nickel	6010C	2.3		mg/kg	90
026	BL-SD-19	Solid	Vanadium	6010C	10		mg/kg	90
026	BL-SD-19	Solid	Zinc	6010C	15		mg/kg	90
027	BL-DS-19	Solid	Aluminum	6010C	7100		mg/kg	96
027	BL-DS-19	Solid	Arsenic	6010C	1.0		mg/kg	96
027	BL-DS-19	Solid	Barium	6010C	51		mg/kg	96
027	BL-DS-19	Solid	Chromium	6010C	7.6		mg/kg	96
027	BL-DS-19	Solid	Copper	6010C	3.3		mg/kg	96
027	BL-DS-19	Solid	Iron	6010C	4800		mg/kg	96
027	BL-DS-19	Solid	Lead	6010C	7.6		mg/kg	96
027	BL-DS-19	Solid	Manganese	6010C	32		mg/kg	96
027	BL-DS-19	Solid	Nickel	6010C	2.6		mg/kg	96
027	BL-DS-19	Solid	Vanadium	6010C	13		mg/kg	96
027	BL-DS-19	Solid	Zinc	6010C	9.1		mg/kg	96
028	BL-SS-48	Solid	Acetone	8260B	110		ug/kg	97
028	BL-SS-48	Solid	Isopropylbenzene	8260B	77		ug/kg	97
029	BL-SS-75A	Solid	Aroclor 1248	8082A	2100		ug/kg	99
029	BL-SS-75A	Solid	Aroclor 1254	8082A	2900		ug/kg	99
030	BL-SS-75B	Solid	Aroclor 1248	8082A	610		ug/kg	100
030	BL-SS-75B	Solid	Aroclor 1254	8082A	1800		ug/kg	100
031	BL-SS-75C	Solid	Aroclor 1254	8082A	88		ug/kg	101
032	BL-SS-75D	Solid	Aroclor 1248	8082A	410		ug/kg	102
032	BL-SS-75D	Solid	Aroclor 1254	8082A	610		ug/kg	102
033	BL-SS-67-DUP	Solid	Aroclor 1248	8082A	1200		ug/kg	106
033	BL-SS-67-DUP	Solid	Aroclor 1254	8082A	1600		ug/kg	106
033	BL-SS-67-DUP	Solid	trans-Chlordane	8081B	27		ug/kg	107

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
033	BL-SS-67-DUP	Solid	4,4'-DDT	8081B	47		ug/kg	107
033	BL-SS-67-DUP	Solid	Dieldrin	8081B	46		ug/kg	107
033	BL-SS-67-DUP	Solid	Aluminum	6010C	18000		mg/kg	108
033	BL-SS-67-DUP	Solid	Arsenic	6010C	2.1		mg/kg	108
033	BL-SS-67-DUP	Solid	Barium	6010C	34		mg/kg	108
033	BL-SS-67-DUP	Solid	Calcium	6010C	950		mg/kg	108
033	BL-SS-67-DUP	Solid	Chromium	6010C	18		mg/kg	108
033	BL-SS-67-DUP	Solid	Copper	6010C	6.4		mg/kg	108
033	BL-SS-67-DUP	Solid	Iron	6010C	12000		mg/kg	108
033	BL-SS-67-DUP	Solid	Lead	6010C	8.4		mg/kg	108
033	BL-SS-67-DUP	Solid	Magnesium	6010C	380		mg/kg	108
033	BL-SS-67-DUP	Solid	Manganese	6010C	96		mg/kg	108
033	BL-SS-67-DUP	Solid	Nickel	6010C	5.8		mg/kg	108
033	BL-SS-67-DUP	Solid	Potassium	6010C	380		mg/kg	108
033	BL-SS-67-DUP	Solid	Vanadium	6010C	33		mg/kg	108
033	BL-SS-67-DUP	Solid	Zinc	6010C	14		mg/kg	108

(253 detections)

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-001
Description: BL-SS-70	Matrix: Solid
Date Sampled: 08/25/2016 1142	% Solids: 82.0 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/01/2016 0030	MEM	08/30/2016 2147	21021

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		6000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		6000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		6000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		6000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	37000		6000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	48000		6000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		6000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		127	41-132
Tetrachloro-m-xylene		92	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-002
Description: BL-SS-48A	Matrix: Solid
Date Sampled: 08/25/2016 1000	% Solids: 85.4 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	50	09/06/2016 1320	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		560	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		560	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		560	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		560	ug/kg	1
Aroclor 1248	12672-29-6	8082A	4900		560	ug/kg	1
Aroclor 1254	11097-69-1	8082A	7900		560	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		560	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		129	41-132
Tetrachloro-m-xylene		93	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-003
Description: BL-SS-74	Matrix: Solid
Date Sampled: 08/25/2016 1110	% Solids: 83.8 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	50	09/07/2016 0930	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		590	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		590	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		590	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		590	ug/kg	1
Aroclor 1248	12672-29-6	8082A	2100		590	ug/kg	1
Aroclor 1254	11097-69-1	8082A	5300		590	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		590	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		106	41-132
Tetrachloro-m-xylene		95	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-004
Description: BL-SS-58	Matrix: Solid
Date Sampled: 08/25/2016 1550	% Solids: 92.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	50	09/07/2016 0943	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		530	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		530	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		530	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		530	ug/kg	1
Aroclor 1248	12672-29-6	8082A	12000		530	ug/kg	1
Aroclor 1254	11097-69-1	8082A	7400		530	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		530	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		122	41-132
Tetrachloro-m-xylene		98	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-005
Description: BL-SS-48B	Matrix: Solid
Date Sampled: 08/25/2016 1004	% Solids: 90.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	50	09/07/2016 0956	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		540	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		540	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		540	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		540	ug/kg	1
Aroclor 1248	12672-29-6	8082A	4100		540	ug/kg	1
Aroclor 1254	11097-69-1	8082A	6700		540	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		540	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		122	41-132
Tetrachloro-m-xylene		103	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-006
Description: BL-SS-52B	Matrix: Solid
Date Sampled: 08/25/2016 1017	% Solids: 76.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/07/2016 1401	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		130	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		130	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		130	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		130	ug/kg	1
Aroclor 1248	12672-29-6	8082A	850		130	ug/kg	1
Aroclor 1254	11097-69-1	8082A	1400		130	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		130	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		112	41-132
Tetrachloro-m-xylene		86	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-SS-63
Date Sampled: 08/24/2016 1600
Date Received: 08/26/2016

Laboratory ID: RH26003-007
Matrix: Solid
% Solids: 85.2 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/06/2016 1254	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		11	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		11	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		11	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		11	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		11	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		11	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		68	41-132
Tetrachloro-m-xylene		66	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-SS-73
Date Sampled: 08/25/2016 1120
Date Received: 08/26/2016

Laboratory ID: RH26003-008
Matrix: Solid
% Solids: 86.4 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/02/2016 2152	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		110	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		110	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		110	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		110	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		110	ug/kg	1
Aroclor 1254	11097-69-1	8082A	2400		110	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		61	41-132
Tetrachloro-m-xylene		64	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-009
Description: BL-SS-52	Matrix: Solid
Date Sampled: 08/25/2016 1700	% Solids: 83.2 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/07/2016 1010	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		6000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		6000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		6000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		6000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	41000		6000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	63000		6000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		6000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		123	41-132
Tetrachloro-m-xylene	N	126	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-010
Description: BL-SB-80	Matrix: Solid
Date Sampled: 08/23/2016 1152	% Solids: 88.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	100	09/07/2016 1023	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		1100	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		1100	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		1100	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		1100	ug/kg	1
Aroclor 1248	12672-29-6	8082A	20000		1100	ug/kg	1
Aroclor 1254	11097-69-1	8082A	22000		1100	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		1100	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		121	41-132
Tetrachloro-m-xylene	N	120	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-011
Description: BL-SS-59	Matrix: Solid
Date Sampled: 08/24/2016 1545	% Solids: 96.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/06/2016 1307	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		9.5	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		9.5	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		9.5	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		9.5	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		9.5	ug/kg	1
Aroclor 1254	11097-69-1	8082A	33		9.5	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		9.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		75	41-132
Tetrachloro-m-xylene		77	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-012
Description: BL-SS-52A	Matrix: Solid
Date Sampled: 08/25/2016 1025	% Solids: 85.5 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	09/07/2016 1036	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		11000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		11000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		11000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		11000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	110000		11000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	110000		11000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		11000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	1320	41-132
Tetrachloro-m-xylene	N	1110	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-013
Description: BL-SS-75	Matrix: Solid
Date Sampled: 08/25/2016 1108	% Solids: 84.5 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	09/07/2016 1049	MEM	09/02/2016 1100	21229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		11000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		11000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		11000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		11000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	160000		11000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	180000		11000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		11000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	224	41-132
Tetrachloro-m-xylene		71	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-015
Description: BL-SS-53A	Matrix: Solid
Date Sampled: 08/25/2016 1020	% Solids: 86.4 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/07/2016 1414	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		110	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		110	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		110	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		110	ug/kg	1
Aroclor 1248	12672-29-6	8082A	180		110	ug/kg	1
Aroclor 1254	11097-69-1	8082A	300		110	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		94	41-132
Tetrachloro-m-xylene		89	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-016
Description: BL-SS-11A	Matrix: Solid
Date Sampled: 08/25/2016 1207	% Solids: 92.8 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	09/07/2016 1640	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		11000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		11000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		11000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		11000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	130000		11000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	100000		11000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		11000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	277	41-132
Tetrachloro-m-xylene	N	110	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-017
Description: BL-WA-01	Matrix: Solid
Date Sampled: 08/24/2016 1318	% Solids: 98.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1819	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.51	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-WA-01
Date Sampled: 08/24/2016 1318
Date Received: 08/26/2016

Laboratory ID: RH26003-017
Matrix: Solid
% Solids: 98.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	09/06/2016 1448	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		670	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		670	ug/kg	1
Acetophenone	98-86-2	8270D	ND		670	ug/kg	1
Anthracene	120-12-7	8270D	ND		670	ug/kg	1
Atrazine	1912-24-9	8270D	ND		670	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1700	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		670	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		670	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		670	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		670	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		670	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		670	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		670	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		670	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1700	ug/kg	1
Carbazole	86-74-8	8270D	ND		670	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		670	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		670	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		670	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		670	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		670	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		670	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		670	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		670	ug/kg	1
Chrysene	218-01-9	8270D	ND		670	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		670	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		670	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		670	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		670	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1700	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		670	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		670	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		670	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		670	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1700	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1700	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		670	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		670	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		670	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		670	ug/kg	1
Fluorene	86-73-7	8270D	ND		670	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		670	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		670	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1700	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-017
Description: BL-WA-01	Matrix: Solid
Date Sampled: 08/24/2016 1318	% Solids: 98.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	2	09/06/2016 1448	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		670	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		670	ug/kg	1
Isophorone	78-59-1	8270D	ND		670	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		670	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		670	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		670	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		670	ug/kg	1
Naphthalene	91-20-3	8270D	ND		670	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		670	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		670	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		670	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		670	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		670	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1700	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1700	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		670	ug/kg	1
Phenol	108-95-2	8270D	ND		670	ug/kg	1
Pyrene	129-00-0	8270D	ND		670	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		670	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		670	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		42	30-117
2-Fluorobiphenyl		42	33-102
2-Fluorophenol		41	28-104
Nitrobenzene-d5		43	22-109
Phenol-d5		44	27-103
Terphenyl-d14		43	41-120

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-017
Description: BL-WA-01	Matrix: Solid
Date Sampled: 08/24/2016 1318	% Solids: 98.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1000	09/02/2016 1914	MEM	09/01/2016 1342	21164

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		10000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		10000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		10000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		10000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	260000		10000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		10000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		10000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	453	41-132
Tetrachloro-m-xylene	N	570	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-WA-01
Date Sampled: 08/24/2016 1318
Date Received: 08/26/2016

Laboratory ID: RH26003-017
Matrix: Solid
% Solids: 98.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	200	09/06/2016 1653	PMS	09/01/2016 1342	21166

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		200	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		200	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		200	ug/kg	1
beta-BHC	319-85-7	8081B	ND		200	ug/kg	1
delta-BHC	319-86-8	8081B	230	P	200	ug/kg	1
Chlordane	57-74-9	8081B	ND		410	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		200	ug/kg	1
trans-Chlordane	5103-74-2	8081B	2900		200	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		200	ug/kg	1
4,4'-DDE	72-55-9	8081B	2500		200	ug/kg	1
4,4'-DDT	50-29-3	8081B	1700		200	ug/kg	1
Dieldrin	60-57-1	8081B	4600		200	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		200	ug/kg	1
Endosulfan II	33213-65-9	8081B	510	P	200	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		200	ug/kg	1
Endrin	72-20-8	8081B	770		200	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	290		200	ug/kg	1
Endrin ketone	53494-70-5	8081B	320		200	ug/kg	1
Heptachlor	76-44-8	8081B	ND		200	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	560	P	200	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		810	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		2000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	417	57-110
Tetrachloro-m-xylene	N	0.00	37-91

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-WA-01
Date Sampled: 08/24/2016 1318
Date Received: 08/26/2016

Laboratory ID: RH26003-017
Matrix: Solid
% Solids: 98.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	10	08/30/2016 1404	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1427	CJZ	08/31/2016 1101	21039
3	3050B	6010C	5	09/07/2016 1315	CJZ	08/31/2016 1101	21039
4	3050B	6010C	25	09/12/2016 1623	NCM	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	28000		98	mg/kg	3
Antimony	7440-36-0	6010C	ND		0.98	mg/kg	1
Arsenic	7440-38-2	6010C	0.90		0.73	mg/kg	1
Barium	7440-39-3	6010C	930		6.3	mg/kg	3
Beryllium	7440-41-7	6010C	ND		1.2	mg/kg	3
Cadmium	7440-43-9	6010C	1.8		0.24	mg/kg	1
Calcium	7440-70-2	6010C	2100		240	mg/kg	1
Chromium	7440-47-3	6010C	87		0.49	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.3	mg/kg	1
Copper	7440-50-8	6010C	410		0.49	mg/kg	1
Iron	7439-89-6	6010C	13000		24	mg/kg	3
Lead	7439-92-1	6010C	7.9		0.49	mg/kg	1
Magnesium	7439-95-4	6010C	ND		240	mg/kg	1
Manganese	7439-96-5	6010C	63		0.73	mg/kg	1
Mercury	7439-97-6	7471B	9.7		0.81	mg/kg	1
Nickel	7440-02-0	6010C	3.7		2.0	mg/kg	1
Potassium	7440-09-7	6010C	ND		1200	mg/kg	3
Selenium	7782-49-2	6010C	ND		0.98	mg/kg	1
Silver	7440-22-4	6010C	ND		0.49	mg/kg	1
Sodium	7440-23-5	6010C	ND		1200	mg/kg	3
Thallium	7440-28-0	6010C	ND		2.4	mg/kg	1
Vanadium	7440-62-2	6010C	5.3		2.4	mg/kg	1
Zinc	7440-66-6	6010C	11000		61	mg/kg	4

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-018
Description: BL-SS-48	Matrix: Solid
Date Sampled: 08/24/2016 1648	% Solids: 92.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1823	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.54	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-48
Date Sampled: 08/24/2016 1648
Date Received: 08/26/2016

Laboratory ID: RH26003-018
Matrix: Solid
% Solids: 92.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1656	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		350	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		350	ug/kg	1
Acetophenone	98-86-2	8270D	ND		350	ug/kg	1
Anthracene	120-12-7	8270D	ND		350	ug/kg	1
Atrazine	1912-24-9	8270D	ND		350	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		880	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		350	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		350	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		350	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		350	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		350	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		350	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		350	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		350	ug/kg	1
Caprolactam	105-60-2	8270D	ND		880	ug/kg	1
Carbazole	86-74-8	8270D	ND		350	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		350	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		350	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		350	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		350	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		350	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		350	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		350	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		350	ug/kg	1
Chrysene	218-01-9	8270D	ND		350	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		350	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		350	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		350	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		350	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		880	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		350	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		350	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		350	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		350	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		880	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		880	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		350	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		350	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		350	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		350	ug/kg	1
Fluorene	86-73-7	8270D	ND		350	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		350	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		350	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		880	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-48
Date Sampled: 08/24/2016 1648
Date Received: 08/26/2016

Laboratory ID: RH26003-018
Matrix: Solid
% Solids: 92.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 1656	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		350	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		350	ug/kg	1
Isophorone	78-59-1	8270D	ND		350	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		350	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		350	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		710	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		350	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		350	ug/kg	1
Naphthalene	91-20-3	8270D	ND		350	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		350	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		350	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		350	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		350	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		350	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		880	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		880	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		350	ug/kg	1
Phenol	108-95-2	8270D	ND		350	ug/kg	1
Pyrene	129-00-0	8270D	ND		350	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		350	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		350	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		73	30-117
2-Fluorobiphenyl		64	33-102
2-Fluorophenol		59	28-104
Nitrobenzene-d5		62	22-109
Phenol-d5		65	27-103
Terphenyl-d14		87	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-018
Description: BL-SS-48	Matrix: Solid
Date Sampled: 08/24/2016 1648	% Solids: 92.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	2000	09/02/2016 1502	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		21000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		21000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		21000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		21000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	490000		21000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	590000		21000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		21000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	524	41-132
Tetrachloro-m-xylene		71	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-SS-48
Date Sampled: 08/24/2016 1648
Date Received: 08/26/2016

Laboratory ID: RH26003-018
Matrix: Solid
% Solids: 92.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1000	09/02/2016 1113	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1000	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1000	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1000	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1000	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1000	ug/kg	1
Chlordane	57-74-9	8081B	ND		2100	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1000	ug/kg	1
trans-Chlordane	5103-74-2	8081B	14000		1000	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1000	ug/kg	1
4,4'-DDE	72-55-9	8081B	9300	P	1000	ug/kg	1
4,4'-DDT	50-29-3	8081B	15000		1000	ug/kg	1
Dieldrin	60-57-1	8081B	28000		1000	ug/kg	1
Endosulfan I	959-98-8	8081B	2500	P	1000	ug/kg	1
Endosulfan II	33213-65-9	8081B	4400	P	1000	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1000	ug/kg	1
Endrin	72-20-8	8081B	3100	P	1000	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	2800		1000	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1000	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1000	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	1200	P	1000	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		4200	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		10000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-SS-48
Date Sampled: 08/24/2016 1648
Date Received: 08/26/2016

Laboratory ID: RH26003-018
Matrix: Solid
% Solids: 92.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1350	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1432	CJZ	08/31/2016 1101	21039
2	3050B	6010C	1	09/07/2016 1301	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	6300		15	mg/kg	2
Antimony	7440-36-0	6010C	ND		0.77	mg/kg	1
Arsenic	7440-38-2	6010C	2.1		0.58	mg/kg	1
Barium	7440-39-3	6010C	25		1.0	mg/kg	2
Beryllium	7440-41-7	6010C	ND		0.19	mg/kg	2
Cadmium	7440-43-9	6010C	ND		0.19	mg/kg	1
Calcium	7440-70-2	6010C	280		190	mg/kg	1
Chromium	7440-47-3	6010C	11		0.39	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.0	mg/kg	1
Copper	7440-50-8	6010C	12		0.39	mg/kg	1
Iron	7439-89-6	6010C	4900		3.9	mg/kg	2
Lead	7439-92-1	6010C	18		0.39	mg/kg	1
Magnesium	7439-95-4	6010C	ND		190	mg/kg	1
Manganese	7439-96-5	6010C	43		0.58	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.087	mg/kg	1
Nickel	7440-02-0	6010C	2.1		1.5	mg/kg	1
Potassium	7440-09-7	6010C	ND		190	mg/kg	2
Selenium	7782-49-2	6010C	ND		0.77	mg/kg	1
Silver	7440-22-4	6010C	ND		0.39	mg/kg	1
Sodium	7440-23-5	6010C	ND		190	mg/kg	2
Thallium	7440-28-0	6010C	ND		1.9	mg/kg	1
Vanadium	7440-62-2	6010C	13		1.9	mg/kg	1
Zinc	7440-66-6	6010C	31		1.9	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-019
Description: BL-WA-2	Matrix: Solid
Date Sampled: 08/24/2016 1301	% Solids: 98.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1824	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.51	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-WA-2
Date Sampled: 08/24/2016 1301
Date Received: 08/26/2016

Laboratory ID: RH26003-019
Matrix: Solid
% Solids: 98.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	09/06/2016 1603	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		1700	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		1700	ug/kg	1
Acetophenone	98-86-2	8270D	ND		1700	ug/kg	1
Anthracene	120-12-7	8270D	ND		1700	ug/kg	1
Atrazine	1912-24-9	8270D	ND		1700	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		4200	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		1700	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		1700	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		1700	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		1700	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		1700	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		1700	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		1700	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		1700	ug/kg	1
Caprolactam	105-60-2	8270D	ND		4200	ug/kg	1
Carbazole	86-74-8	8270D	ND		1700	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		1700	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		1700	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		1700	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		1700	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		1700	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		1700	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		1700	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		1700	ug/kg	1
Chrysene	218-01-9	8270D	ND		1700	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		1700	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		1700	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		1700	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		1700	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		4200	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		1700	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		1700	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		1700	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		1700	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		4200	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		4200	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		1700	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		1700	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		1700	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		1700	ug/kg	1
Fluorene	86-73-7	8270D	ND		1700	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		1700	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		1700	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		4200	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-WA-2
Date Sampled: 08/24/2016 1301
Date Received: 08/26/2016

Laboratory ID: RH26003-019
Matrix: Solid
% Solids: 98.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	5	09/06/2016 1603	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		1700	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		1700	ug/kg	1
Isophorone	78-59-1	8270D	ND		1700	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		1700	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		1700	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		3400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		1700	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		1700	ug/kg	1
Naphthalene	91-20-3	8270D	ND		1700	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		1700	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		1700	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		1700	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		1700	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		1700	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		4200	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		4200	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		1700	ug/kg	1
Phenol	108-95-2	8270D	ND		1700	ug/kg	1
Pyrene	129-00-0	8270D	ND		1700	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		1700	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		1700	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		52	30-117
2-Fluorobiphenyl		52	33-102
2-Fluorophenol		51	28-104
Nitrobenzene-d5		51	22-109
Phenol-d5		52	27-103
Terphenyl-d14		55	41-120

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-019
Description: BL-WA-2	Matrix: Solid
Date Sampled: 08/24/2016 1301	% Solids: 98.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	100	09/02/2016 1927	MEM	09/01/2016 1342	21164

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		1000	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		1000	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		1000	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		1000	ug/kg	1
Aroclor 1248	12672-29-6	8082A	14000		1000	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		1000	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		1000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	170	41-132
Tetrachloro-m-xylene		51	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-WA-2
Date Sampled: 08/24/2016 1301
Date Received: 08/26/2016

Laboratory ID: RH26003-019
Matrix: Solid
% Solids: 98.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	20	09/07/2016 1135	PMS	09/01/2016 1342	21166

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		20	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		20	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		20	ug/kg	1
beta-BHC	319-85-7	8081B	ND		20	ug/kg	1
delta-BHC	319-86-8	8081B	22	P	20	ug/kg	1
Chlordane	57-74-9	8081B	ND		41	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		20	ug/kg	1
trans-Chlordane	5103-74-2	8081B	80	P	20	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		20	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		20	ug/kg	1
4,4'-DDT	50-29-3	8081B	150		20	ug/kg	1
Dieldrin	60-57-1	8081B	240		20	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		20	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		20	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		20	ug/kg	1
Endrin	72-20-8	8081B	21	P	20	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		20	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		20	ug/kg	1
Heptachlor	76-44-8	8081B	ND		20	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		20	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		81	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		200	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	212	57-110
Tetrachloro-m-xylene	N	341	37-91

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-WA-2
Date Sampled: 08/24/2016 1301
Date Received: 08/26/2016

Laboratory ID: RH26003-019
Matrix: Solid
% Solids: 98.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1214	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1436	CJZ	08/31/2016 1101	21039
2	3050B	6010C	1	09/07/2016 1311	CJZ	08/31/2016 1101	21039
3	3050B	6010C	20	09/07/2016 1306	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	440		11	mg/kg	2
Antimony	7440-36-0	6010C	ND		0.57	mg/kg	1
Arsenic	7440-38-2	6010C	ND		0.43	mg/kg	1
Barium	7440-39-3	6010C	95		0.74	mg/kg	2
Beryllium	7440-41-7	6010C	ND		0.14	mg/kg	2
Cadmium	7440-43-9	6010C	1.0		0.14	mg/kg	1
Calcium	7440-70-2	6010C	2500		140	mg/kg	1
Chromium	7440-47-3	6010C	70		0.28	mg/kg	1
Cobalt	7440-48-4	6010C	ND		0.74	mg/kg	1
Copper	7440-50-8	6010C	330		0.28	mg/kg	1
Iron	7439-89-6	6010C	2800		2.8	mg/kg	2
Lead	7439-92-1	6010C	6.6		0.28	mg/kg	1
Magnesium	7439-95-4	6010C	ND		140	mg/kg	1
Manganese	7439-96-5	6010C	12		0.43	mg/kg	1
Mercury	7439-97-6	7471B	0.52		0.082	mg/kg	1
Nickel	7440-02-0	6010C	2.2		1.1	mg/kg	1
Potassium	7440-09-7	6010C	ND		140	mg/kg	2
Selenium	7782-49-2	6010C	ND		0.57	mg/kg	1
Silver	7440-22-4	6010C	ND		0.28	mg/kg	1
Sodium	7440-23-5	6010C	ND		140	mg/kg	2
Thallium	7440-28-0	6010C	ND		1.4	mg/kg	1
Vanadium	7440-62-2	6010C	ND		1.4	mg/kg	1
Zinc	7440-66-6	6010C	4800		28	mg/kg	3

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-020
Description: BL-SS-57	Matrix: Solid
Date Sampled: 08/25/2016 1053	% Solids: 80.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1825	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.62	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-57
Date Sampled: 08/25/2016 1053
Date Received: 08/26/2016

Laboratory ID: RH26003-020
Matrix: Solid
% Solids: 80.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1707	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		400	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		400	ug/kg	1
Acetophenone	98-86-2	8270D	ND		400	ug/kg	1
Anthracene	120-12-7	8270D	ND		400	ug/kg	1
Atrazine	1912-24-9	8270D	ND		400	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1000	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		400	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		400	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		400	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		400	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		400	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		400	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		400	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		400	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1000	ug/kg	1
Carbazole	86-74-8	8270D	ND		400	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		400	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		400	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		400	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		400	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		400	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		400	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		400	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		400	ug/kg	1
Chrysene	218-01-9	8270D	ND		400	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		400	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		400	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		400	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		400	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1000	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		400	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		400	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		400	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		400	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1000	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1000	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		400	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		400	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		400	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		400	ug/kg	1
Fluorene	86-73-7	8270D	ND		400	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		400	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		400	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1000	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-020
Description: BL-SS-57	Matrix: Solid
Date Sampled: 08/25/2016 1053	% Solids: 80.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1707	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		400	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		400	ug/kg	1
Isophorone	78-59-1	8270D	ND		400	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		400	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		400	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		810	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		400	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		400	ug/kg	1
Naphthalene	91-20-3	8270D	ND		400	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		400	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		400	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		400	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		400	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		400	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1000	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1000	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		400	ug/kg	1
Phenol	108-95-2	8270D	ND		400	ug/kg	1
Pyrene	129-00-0	8270D	ND		400	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		400	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		400	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		71	30-117
2-Fluorobiphenyl		63	33-102
2-Fluorophenol		58	28-104
Nitrobenzene-d5		70	22-109
Phenol-d5		66	27-103
Terphenyl-d14		77	41-120

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-020
Description: BL-SS-57	Matrix: Solid
Date Sampled: 08/25/2016 1053	% Solids: 80.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	20	09/02/2016 1515	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		240	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		240	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		240	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		240	ug/kg	1
Aroclor 1248	12672-29-6	8082A	4500		240	ug/kg	1
Aroclor 1254	11097-69-1	8082A	3700		240	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		240	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		86	41-132
Tetrachloro-m-xylene		77	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-SS-57
Date Sampled: 08/25/2016 1053
Date Received: 08/26/2016

Laboratory ID: RH26003-020
Matrix: Solid
% Solids: 80.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	5	09/06/2016 1639	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		6.0	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		6.0	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		6.0	ug/kg	1
beta-BHC	319-85-7	8081B	ND		6.0	ug/kg	1
delta-BHC	319-86-8	8081B	ND		6.0	ug/kg	1
Chlordane	57-74-9	8081B	ND		12	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		6.0	ug/kg	1
trans-Chlordane	5103-74-2	8081B	88		6.0	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		6.0	ug/kg	1
4,4'-DDE	72-55-9	8081B	20	P	6.0	ug/kg	1
4,4'-DDT	50-29-3	8081B	87		6.0	ug/kg	1
Dieldrin	60-57-1	8081B	140		6.0	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		6.0	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		6.0	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		6.0	ug/kg	1
Endrin	72-20-8	8081B	15	P	6.0	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		6.0	ug/kg	1
Endrin ketone	53494-70-5	8081B	10		6.0	ug/kg	1
Heptachlor	76-44-8	8081B	ND		6.0	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	7.2	P	6.0	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		24	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		60	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		92	57-110
Tetrachloro-m-xylene		64	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-SS-57
Date Sampled: 08/25/2016 1053
Date Received: 08/26/2016

Laboratory ID: RH26003-020
Matrix: Solid
% Solids: 80.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1216	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1441	CJZ	08/31/2016 1101	21039
3	3050B	6010C	1	09/07/2016 1320	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	10000		19	mg/kg	3
Antimony	7440-36-0	6010C	ND		0.93	mg/kg	1
Arsenic	7440-38-2	6010C	1.7		0.70	mg/kg	1
Barium	7440-39-3	6010C	27		1.2	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.23	mg/kg	3
Cadmium	7440-43-9	6010C	ND		0.23	mg/kg	1
Calcium	7440-70-2	6010C	280		230	mg/kg	1
Chromium	7440-47-3	6010C	11		0.47	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.2	mg/kg	1
Copper	7440-50-8	6010C	4.8		0.47	mg/kg	1
Iron	7439-89-6	6010C	8500		4.7	mg/kg	3
Lead	7439-92-1	6010C	8.0		0.47	mg/kg	1
Magnesium	7439-95-4	6010C	ND		230	mg/kg	1
Manganese	7439-96-5	6010C	76		0.70	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.092	mg/kg	1
Nickel	7440-02-0	6010C	3.0		1.9	mg/kg	1
Potassium	7440-09-7	6010C	ND		230	mg/kg	3
Selenium	7782-49-2	6010C	ND		0.93	mg/kg	1
Silver	7440-22-4	6010C	ND		0.47	mg/kg	1
Sodium	7440-23-5	6010C	ND		230	mg/kg	3
Thallium	7440-28-0	6010C	ND		2.3	mg/kg	1
Vanadium	7440-62-2	6010C	22		2.3	mg/kg	1
Zinc	7440-66-6	6010C	9.5		2.3	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-021
Description: BL-BKG-SS	Matrix: Solid
Date Sampled: 08/25/2016 0857	% Solids: 99.0 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	9012B	(Cyanide - To) 9012B	1	08/30/2016 1826	MJI	08/30/2016 1145	20971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.51	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SS
Date Sampled: 08/25/2016 0857
Date Received: 08/26/2016

Laboratory ID: RH26003-021
Matrix: Solid
% Solids: 99.0 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	08/30/2016 1842	SES		20964	5.54

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		18	ug/kg	2
Benzene	71-43-2	8260B	ND		4.6	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		4.6	ug/kg	2
Bromoform	75-25-2	8260B	ND		4.6	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.6	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		18	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		4.6	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		4.6	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		4.6	ug/kg	2
Chloroethane	75-00-3	8260B	ND		4.6	ug/kg	2
Chloroform	67-66-3	8260B	ND		4.6	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.6	ug/kg	2
Cyclohexane	110-82-7	8260B	ND		4.6	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.6	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		4.6	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.6	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.6	ug/kg	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		4.6	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.6	ug/kg	2
Dichlorodifluoromethane	75-71-8	8260B	ND		4.6	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		4.6	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		4.6	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		4.6	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.6	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.6	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		4.6	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.6	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.6	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		4.6	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		9.1	ug/kg	2
Isopropylbenzene	98-82-8	8260B	ND		4.6	ug/kg	2
Methyl acetate	79-20-9	8260B	ND		4.6	ug/kg	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		4.6	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.1	ug/kg	2
Methylcyclohexane	108-87-2	8260B	ND		4.6	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		4.6	ug/kg	2
Styrene	100-42-5	8260B	ND		4.6	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.6	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		4.6	ug/kg	2
Toluene	108-88-3	8260B	ND		4.6	ug/kg	2
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		4.6	ug/kg	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		4.6	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.6	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.6	ug/kg	2

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-021
Description: BL-BKG-SS	Matrix: Solid
Date Sampled: 08/25/2016 0857	% Solids: 99.0 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	08/30/2016 1842	SES		20964	5.54

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		4.6	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		4.6	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		4.6	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		9.1	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	53-142
Bromofluorobenzene		92	47-138
Toluene-d8		103	68-124

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SS
Date Sampled: 08/25/2016 0857
Date Received: 08/26/2016

Laboratory ID: RH26003-021
Matrix: Solid
% Solids: 99.0 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1628	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		330	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		330	ug/kg	1
Acetophenone	98-86-2	8270D	ND		330	ug/kg	1
Anthracene	120-12-7	8270D	ND		330	ug/kg	1
Atrazine	1912-24-9	8270D	ND		330	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		830	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		330	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		330	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		330	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		330	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		330	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		330	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		330	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		330	ug/kg	1
Caprolactam	105-60-2	8270D	ND		830	ug/kg	1
Carbazole	86-74-8	8270D	ND		330	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		330	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		330	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		330	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		330	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		330	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		330	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		330	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		330	ug/kg	1
Chrysene	218-01-9	8270D	ND		330	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		330	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		330	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		330	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		330	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		830	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		330	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		330	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		330	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		330	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		830	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		830	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		330	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		330	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		330	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		330	ug/kg	1
Fluorene	86-73-7	8270D	ND		330	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		330	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		330	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		830	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SS
Date Sampled: 08/25/2016 0857
Date Received: 08/26/2016

Laboratory ID: RH26003-021
Matrix: Solid
% Solids: 99.0 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1628	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		330	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		330	ug/kg	1
Isophorone	78-59-1	8270D	ND		330	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		330	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		330	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		670	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		330	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		330	ug/kg	1
Naphthalene	91-20-3	8270D	ND		330	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		330	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		330	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		330	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		330	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		330	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		830	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		830	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		330	ug/kg	1
Phenol	108-95-2	8270D	ND		330	ug/kg	1
Pyrene	129-00-0	8270D	ND		330	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		330	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		330	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		86	30-117
2-Fluorobiphenyl		72	33-102
2-Fluorophenol		66	28-104
Nitrobenzene-d5		67	22-109
Phenol-d5		70	27-103
Terphenyl-d14		83	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-021
Description: BL-BKG-SS	Matrix: Solid
Date Sampled: 08/25/2016 0857	% Solids: 99.0 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/02/2016 1635	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		9.7	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		9.7	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		9.7	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		9.7	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		9.7	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		9.7	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		9.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		77	41-132
Tetrachloro-m-xylene		77	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-BKG-SS
Date Sampled: 08/25/2016 0857
Date Received: 08/26/2016

Laboratory ID: RH26003-021
Matrix: Solid
% Solids: 99.0 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/02/2016 1213	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		0.97	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		0.97	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		0.97	ug/kg	1
beta-BHC	319-85-7	8081B	ND		0.97	ug/kg	1
delta-BHC	319-86-8	8081B	ND		0.97	ug/kg	1
Chlordane	57-74-9	8081B	ND		1.9	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		0.97	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		0.97	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		0.97	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		0.97	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		0.97	ug/kg	1
Dieldrin	60-57-1	8081B	ND		0.97	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		0.97	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		0.97	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		0.97	ug/kg	1
Endrin	72-20-8	8081B	ND		0.97	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		0.97	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		0.97	ug/kg	1
Heptachlor	76-44-8	8081B	ND		0.97	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		0.97	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		3.9	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		9.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		75	57-110
Tetrachloro-m-xylene		75	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-BKG-SS
Date Sampled: 08/25/2016 0857
Date Received: 08/26/2016

Laboratory ID: RH26003-021
Matrix: Solid
% Solids: 99.0 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1218	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1445	CJZ	08/31/2016 1101	21039
2	3050B	6010C	1	09/07/2016 1325	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	1100		10	mg/kg	2
Antimony	7440-36-0	6010C	ND		0.52	mg/kg	1
Arsenic	7440-38-2	6010C	ND		0.39	mg/kg	1
Barium	7440-39-3	6010C	3.2		0.68	mg/kg	2
Beryllium	7440-41-7	6010C	ND		0.13	mg/kg	2
Cadmium	7440-43-9	6010C	ND		0.13	mg/kg	1
Calcium	7440-70-2	6010C	ND		130	mg/kg	1
Chromium	7440-47-3	6010C	1.1		0.26	mg/kg	1
Cobalt	7440-48-4	6010C	ND		0.68	mg/kg	1
Copper	7440-50-8	6010C	0.97		0.26	mg/kg	1
Iron	7439-89-6	6010C	980		2.6	mg/kg	2
Lead	7439-92-1	6010C	0.81		0.26	mg/kg	1
Magnesium	7439-95-4	6010C	ND		130	mg/kg	1
Manganese	7439-96-5	6010C	9.0		0.39	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.076	mg/kg	1
Nickel	7440-02-0	6010C	ND		1.0	mg/kg	1
Potassium	7440-09-7	6010C	ND		130	mg/kg	2
Selenium	7782-49-2	6010C	ND		0.52	mg/kg	1
Silver	7440-22-4	6010C	ND		0.26	mg/kg	1
Sodium	7440-23-5	6010C	ND		130	mg/kg	2
Thallium	7440-28-0	6010C	ND		1.3	mg/kg	1
Vanadium	7440-62-2	6010C	2.4		1.3	mg/kg	1
Zinc	7440-66-6	6010C	3.8		1.3	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-022
Description: BL-BKG-SD	Matrix: Solid
Date Sampled: 08/25/2016 0820	% Solids: 64.5 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1840	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.78	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SD
Date Sampled: 08/25/2016 0820
Date Received: 08/26/2016

Laboratory ID: RH26003-022
Matrix: Solid
% Solids: 64.5 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/29/2016 1926	ECP		20911	5.33

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	49		29	ug/kg	1
Benzene	71-43-2	8260B	ND		7.3	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		7.3	ug/kg	1
Bromoform	75-25-2	8260B	ND		7.3	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		7.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		29	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		7.3	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		7.3	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		7.3	ug/kg	1
Chloroethane	75-00-3	8260B	ND		7.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		7.3	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		7.3	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		7.3	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		7.3	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		7.3	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		7.3	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		7.3	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		7.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		7.3	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		7.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		7.3	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		7.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		7.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		7.3	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		7.3	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		7.3	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		7.3	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		7.3	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		7.3	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		15	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		7.3	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		7.3	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		7.3	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		15	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		7.3	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		7.3	ug/kg	1
Styrene	100-42-5	8260B	ND		7.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		7.3	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		7.3	ug/kg	1
Toluene	108-88-3	8260B	ND		7.3	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		7.3	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		7.3	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		7.3	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		7.3	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
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H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-022
Description: BL-BKG-SD	Matrix: Solid
Date Sampled: 08/25/2016 0820	% Solids: 64.5 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/29/2016 1926	ECP		20911	5.33

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		7.3	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		7.3	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		7.3	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		15	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	53-142
Bromofluorobenzene		90	47-138
Toluene-d8		100	68-124

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ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SD
Date Sampled: 08/25/2016 0820
Date Received: 08/26/2016

Laboratory ID: RH26003-022
Matrix: Solid
% Solids: 64.5 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1731	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		500	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		500	ug/kg	1
Acetophenone	98-86-2	8270D	ND		500	ug/kg	1
Anthracene	120-12-7	8270D	ND		500	ug/kg	1
Atrazine	1912-24-9	8270D	ND		500	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1300	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		500	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		500	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		500	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		500	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		500	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		500	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		500	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		500	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1300	ug/kg	1
Carbazole	86-74-8	8270D	ND		500	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		500	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		500	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		500	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		500	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		500	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		500	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		500	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		500	ug/kg	1
Chrysene	218-01-9	8270D	ND		500	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		500	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		500	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		500	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		500	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1300	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		500	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		500	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		500	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		500	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1300	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		500	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		500	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		500	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		500	ug/kg	1
Fluorene	86-73-7	8270D	ND		500	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		500	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		500	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1300	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SD
Date Sampled: 08/25/2016 0820
Date Received: 08/26/2016

Laboratory ID: RH26003-022
Matrix: Solid
% Solids: 64.5 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1731	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		500	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		500	ug/kg	1
Isophorone	78-59-1	8270D	ND		500	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		500	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		500	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		1000	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		500	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		500	ug/kg	1
Naphthalene	91-20-3	8270D	ND		500	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		500	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		500	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		500	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		500	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		500	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1300	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1300	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		500	ug/kg	1
Phenol	108-95-2	8270D	ND		500	ug/kg	1
Pyrene	129-00-0	8270D	ND		500	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		500	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		500	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		70	30-117
2-Fluorobiphenyl		59	33-102
2-Fluorophenol		58	28-104
Nitrobenzene-d5		63	22-109
Phenol-d5		63	27-103
Terphenyl-d14		75	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-BKG-SD
Date Sampled: 08/25/2016 0820
Date Received: 08/26/2016

Laboratory ID: RH26003-022
Matrix: Solid
% Solids: 64.5 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/02/2016 1714	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		15	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		15	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		15	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		15	ug/kg	1
Aroclor 1248	12672-29-6	8082A	19		15	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		15	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		15	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		73	41-132
Tetrachloro-m-xylene		76	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-BKG-SD
Date Sampled: 08/25/2016 0820
Date Received: 08/26/2016

Laboratory ID: RH26003-022
Matrix: Solid
% Solids: 64.5 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/02/2016 1227	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.5	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.5	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.5	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.5	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.5	ug/kg	1
Chlordane	57-74-9	8081B	ND		3.1	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1.5	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		1.5	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.5	ug/kg	1
4,4'-DDE	72-55-9	8081B	7.0		1.5	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.5	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.5	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.5	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.5	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.5	ug/kg	1
Endrin	72-20-8	8081B	ND		1.5	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.5	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.5	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.5	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.5	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		6.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		15	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		71	57-110
Tetrachloro-m-xylene		74	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-BKG-SD
Date Sampled: 08/25/2016 0820
Date Received: 08/26/2016

Laboratory ID: RH26003-022
Matrix: Solid
% Solids: 64.5 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1221	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1450	CJZ	08/31/2016 1101	21039
3	3050B	6010C	1	09/07/2016 1339	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	18000		29	mg/kg	3
Antimony	7440-36-0	6010C	ND		1.4	mg/kg	1
Arsenic	7440-38-2	6010C	1.5		1.1	mg/kg	1
Barium	7440-39-3	6010C	27		1.9	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.36	mg/kg	3
Cadmium	7440-43-9	6010C	ND		0.36	mg/kg	1
Calcium	7440-70-2	6010C	360		360	mg/kg	1
Chromium	7440-47-3	6010C	24		0.72	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.9	mg/kg	1
Copper	7440-50-8	6010C	16		0.72	mg/kg	1
Iron	7439-89-6	6010C	30000		7.2	mg/kg	3
Lead	7439-92-1	6010C	11		0.72	mg/kg	1
Magnesium	7439-95-4	6010C	ND		360	mg/kg	1
Manganese	7439-96-5	6010C	20		1.1	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.11	mg/kg	1
Nickel	7440-02-0	6010C	5.1		2.9	mg/kg	1
Potassium	7440-09-7	6010C	ND		360	mg/kg	3
Selenium	7782-49-2	6010C	ND		1.4	mg/kg	1
Silver	7440-22-4	6010C	ND		0.72	mg/kg	1
Sodium	7440-23-5	6010C	ND		360	mg/kg	3
Thallium	7440-28-0	6010C	ND		3.6	mg/kg	1
Vanadium	7440-62-2	6010C	44		3.6	mg/kg	1
Zinc	7440-66-6	6010C	17		3.6	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-023
Description: BL-BKG-SB	Matrix: Solid
Date Sampled: 08/25/2016 0905	% Solids: 87.8 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1841	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.57	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SB
Date Sampled: 08/25/2016 0905
Date Received: 08/26/2016

Laboratory ID: RH26003-023
Matrix: Solid
% Solids: 87.8 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/29/2016 1949	ECP		20911	7.69

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	15		15	ug/kg	1
Benzene	71-43-2	8260B	ND		3.7	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		3.7	ug/kg	1
Bromoform	75-25-2	8260B	ND		3.7	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.7	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		15	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		3.7	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		3.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		3.7	ug/kg	1
Chloroethane	75-00-3	8260B	ND		3.7	ug/kg	1
Chloroform	67-66-3	8260B	ND		3.7	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.7	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		3.7	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.7	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		3.7	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.7	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.7	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		3.7	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.7	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		3.7	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		3.7	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		3.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		3.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.7	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		3.7	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.7	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.7	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		3.7	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		7.4	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND		3.7	ug/kg	1
Methyl acetate	79-20-9	8260B	3.9		3.7	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		3.7	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		7.4	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		3.7	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		3.7	ug/kg	1
Styrene	100-42-5	8260B	ND		3.7	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.7	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		3.7	ug/kg	1
Toluene	108-88-3	8260B	ND		3.7	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		3.7	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		3.7	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.7	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.7	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-023
Description: BL-BKG-SB	Matrix: Solid
Date Sampled: 08/25/2016 0905	% Solids: 87.8 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/29/2016 1949	ECP		20911	7.69

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		3.7	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		3.7	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		3.7	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		7.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	53-142
Bromofluorobenzene		92	47-138
Toluene-d8		99	68-124

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
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ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SB
Date Sampled: 08/25/2016 0905
Date Received: 08/26/2016

Laboratory ID: RH26003-023
Matrix: Solid
% Solids: 87.8 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1756	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		370	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		370	ug/kg	1
Acetophenone	98-86-2	8270D	ND		370	ug/kg	1
Anthracene	120-12-7	8270D	ND		370	ug/kg	1
Atrazine	1912-24-9	8270D	ND		370	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		940	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		370	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		370	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		370	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		370	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		370	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		370	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		370	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		370	ug/kg	1
Caprolactam	105-60-2	8270D	ND		940	ug/kg	1
Carbazole	86-74-8	8270D	ND		370	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		370	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		370	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		370	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		370	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		370	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		370	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		370	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		370	ug/kg	1
Chrysene	218-01-9	8270D	ND		370	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		370	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		370	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		370	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		370	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		940	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		370	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		370	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		370	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		370	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		940	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		940	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		370	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		370	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		370	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		370	ug/kg	1
Fluorene	86-73-7	8270D	ND		370	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		370	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		370	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		940	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-BKG-SB
Date Sampled: 08/25/2016 0905
Date Received: 08/26/2016

Laboratory ID: RH26003-023
Matrix: Solid
% Solids: 87.8 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1756	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		370	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		370	ug/kg	1
Isophorone	78-59-1	8270D	ND		370	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		370	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		370	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		760	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		370	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		370	ug/kg	1
Naphthalene	91-20-3	8270D	ND		370	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		370	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		370	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		370	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		370	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		370	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		940	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		940	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		370	ug/kg	1
Phenol	108-95-2	8270D	ND		370	ug/kg	1
Pyrene	129-00-0	8270D	ND		370	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		370	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		370	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		70	30-117
2-Fluorobiphenyl		64	33-102
2-Fluorophenol		64	28-104
Nitrobenzene-d5		71	22-109
Phenol-d5		71	27-103
Terphenyl-d14		77	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-BKG-SB
Date Sampled: 08/25/2016 0905
Date Received: 08/26/2016

Laboratory ID: RH26003-023
Matrix: Solid
% Solids: 87.8 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/02/2016 1728	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		11	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		11	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		11	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		11	ug/kg	1
Aroclor 1248	12672-29-6	8082A	15		11	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		11	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		73	41-132
Tetrachloro-m-xylene		68	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-BKG-SB
Date Sampled: 08/25/2016 0905
Date Received: 08/26/2016

Laboratory ID: RH26003-023
Matrix: Solid
% Solids: 87.8 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/02/2016 1242	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.1	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.1	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.1	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.1	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.1	ug/kg	1
Chlordane	57-74-9	8081B	ND		2.2	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1.1	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		1.1	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.1	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.1	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.1	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.1	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.1	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.1	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.1	ug/kg	1
Endrin	72-20-8	8081B	ND		1.1	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.1	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.1	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.1	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.1	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		4.5	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		71	57-110
Tetrachloro-m-xylene		67	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-BKG-SB
Date Sampled: 08/25/2016 0905
Date Received: 08/26/2016

Laboratory ID: RH26003-023
Matrix: Solid
% Solids: 87.8 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1227	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1454	CJZ	08/31/2016 1101	21039
3	3050B	6010C	1	09/07/2016 1343	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	16000		18	mg/kg	3
Antimony	7440-36-0	6010C	ND		0.88	mg/kg	1
Arsenic	7440-38-2	6010C	1.5		0.66	mg/kg	1
Barium	7440-39-3	6010C	16		1.1	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.22	mg/kg	3
Cadmium	7440-43-9	6010C	ND		0.22	mg/kg	1
Calcium	7440-70-2	6010C	ND		220	mg/kg	1
Chromium	7440-47-3	6010C	17		0.44	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.1	mg/kg	1
Copper	7440-50-8	6010C	4.5		0.44	mg/kg	1
Iron	7439-89-6	6010C	16000		4.4	mg/kg	3
Lead	7439-92-1	6010C	5.9		0.44	mg/kg	1
Magnesium	7439-95-4	6010C	280		220	mg/kg	1
Manganese	7439-96-5	6010C	8.8		0.66	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.092	mg/kg	1
Nickel	7440-02-0	6010C	4.2		1.8	mg/kg	1
Potassium	7440-09-7	6010C	ND		220	mg/kg	3
Selenium	7782-49-2	6010C	ND		0.88	mg/kg	1
Silver	7440-22-4	6010C	ND		0.44	mg/kg	1
Sodium	7440-23-5	6010C	ND		220	mg/kg	3
Thallium	7440-28-0	6010C	ND		2.2	mg/kg	1
Vanadium	7440-62-2	6010C	39		2.2	mg/kg	1
Zinc	7440-66-6	6010C	6.5		2.2	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-024
Description: BL-SS-67	Matrix: Solid
Date Sampled: 08/24/2016 1336	% Solids: 86.2 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1846	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.58	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-67
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-024
Matrix: Solid
% Solids: 86.2 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1821	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		380	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		380	ug/kg	1
Acetophenone	98-86-2	8270D	ND		380	ug/kg	1
Anthracene	120-12-7	8270D	ND		380	ug/kg	1
Atrazine	1912-24-9	8270D	ND		380	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		960	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		380	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		380	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		380	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		380	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		380	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		380	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		380	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		380	ug/kg	1
Caprolactam	105-60-2	8270D	ND		960	ug/kg	1
Carbazole	86-74-8	8270D	ND		380	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		380	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		380	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		380	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		380	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		380	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		380	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		380	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		380	ug/kg	1
Chrysene	218-01-9	8270D	ND		380	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		380	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		380	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		380	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		380	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		960	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		380	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		380	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		380	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		380	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		960	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		960	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		380	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		380	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		380	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		380	ug/kg	1
Fluorene	86-73-7	8270D	ND		380	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		380	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		380	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		960	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-67
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-024
Matrix: Solid
% Solids: 86.2 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	08/30/2016 1821	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		380	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		380	ug/kg	1
Isophorone	78-59-1	8270D	ND		380	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		380	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		380	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		770	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		380	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		380	ug/kg	1
Naphthalene	91-20-3	8270D	ND		380	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		380	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		380	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		380	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		380	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		380	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		960	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		960	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		380	ug/kg	1
Phenol	108-95-2	8270D	ND		380	ug/kg	1
Pyrene	129-00-0	8270D	ND		380	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		380	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		380	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		71	30-117
2-Fluorobiphenyl		65	33-102
2-Fluorophenol		60	28-104
Nitrobenzene-d5		67	22-109
Phenol-d5		65	27-103
Terphenyl-d14		74	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-SS-67
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-024
Matrix: Solid
% Solids: 86.2 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/01/2016 2120	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		110	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		110	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		110	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		110	ug/kg	1
Aroclor 1248	12672-29-6	8082A	1700		110	ug/kg	1
Aroclor 1254	11097-69-1	8082A	2200		110	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		84	41-132
Tetrachloro-m-xylene		80	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-SS-67
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-024
Matrix: Solid
% Solids: 86.2 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	10	09/02/2016 1257	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		11	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		11	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		11	ug/kg	1
beta-BHC	319-85-7	8081B	ND		11	ug/kg	1
delta-BHC	319-86-8	8081B	ND		11	ug/kg	1
Chlordane	57-74-9	8081B	ND		22	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		11	ug/kg	1
trans-Chlordane	5103-74-2	8081B	37		11	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		11	ug/kg	1
4,4'-DDE	72-55-9	8081B	16	P	11	ug/kg	1
4,4'-DDT	50-29-3	8081B	68		11	ug/kg	1
Dieldrin	60-57-1	8081B	66		11	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		11	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		11	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		11	ug/kg	1
Endrin	72-20-8	8081B	ND		11	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		11	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		11	ug/kg	1
Heptachlor	76-44-8	8081B	ND		11	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		11	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		44	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		86	57-110
Tetrachloro-m-xylene		70	37-91

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-SS-67
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-024
Matrix: Solid
% Solids: 86.2 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1229	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1459	CJZ	08/31/2016 1101	21039
3	3050B	6010C	1	09/07/2016 1348	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	14000		20	mg/kg	3
Antimony	7440-36-0	6010C	ND		1.0	mg/kg	1
Arsenic	7440-38-2	6010C	2.0		0.76	mg/kg	1
Barium	7440-39-3	6010C	43		1.3	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.25	mg/kg	3
Cadmium	7440-43-9	6010C	ND		0.25	mg/kg	1
Calcium	7440-70-2	6010C	1400		250	mg/kg	1
Chromium	7440-47-3	6010C	15		0.51	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.3	mg/kg	1
Copper	7440-50-8	6010C	6.3		0.51	mg/kg	1
Iron	7439-89-6	6010C	10000		5.1	mg/kg	3
Lead	7439-92-1	6010C	9.4		0.51	mg/kg	1
Magnesium	7439-95-4	6010C	360		250	mg/kg	1
Manganese	7439-96-5	6010C	130		0.76	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.095	mg/kg	1
Nickel	7440-02-0	6010C	4.3		2.0	mg/kg	1
Potassium	7440-09-7	6010C	360		250	mg/kg	3
Selenium	7782-49-2	6010C	ND		1.0	mg/kg	1
Silver	7440-22-4	6010C	ND		0.51	mg/kg	1
Sodium	7440-23-5	6010C	ND		250	mg/kg	3
Thallium	7440-28-0	6010C	ND		2.5	mg/kg	1
Vanadium	7440-62-2	6010C	27		2.5	mg/kg	1
Zinc	7440-66-6	6010C	18		2.5	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-025
Description: BL-SS-53	Matrix: Solid
Date Sampled: 08/24/2016 1657	% Solids: 88.1 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1849	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.57	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-53
Date Sampled: 08/24/2016 1657
Date Received: 08/26/2016

Laboratory ID: RH26003-025
Matrix: Solid
% Solids: 88.1 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1653	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		370	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		370	ug/kg	1
Acetophenone	98-86-2	8270D	ND		370	ug/kg	1
Anthracene	120-12-7	8270D	ND		370	ug/kg	1
Atrazine	1912-24-9	8270D	ND		370	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		920	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		370	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		370	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		370	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		370	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		370	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		370	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		370	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		370	ug/kg	1
Caprolactam	105-60-2	8270D	ND		920	ug/kg	1
Carbazole	86-74-8	8270D	ND		370	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		370	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		370	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		370	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		370	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		370	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		370	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		370	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		370	ug/kg	1
Chrysene	218-01-9	8270D	ND		370	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		370	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		370	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		370	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		370	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		920	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		370	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		370	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		370	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		370	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		920	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		920	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		370	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		370	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	370		370	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		370	ug/kg	1
Fluorene	86-73-7	8270D	ND		370	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		370	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		370	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		920	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-53
Date Sampled: 08/24/2016 1657
Date Received: 08/26/2016

Laboratory ID: RH26003-025
Matrix: Solid
% Solids: 88.1 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1653	JCG	08/29/2016 2356	20899

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		370	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		370	ug/kg	1
Isophorone	78-59-1	8270D	ND		370	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		370	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		370	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		740	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		370	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		370	ug/kg	1
Naphthalene	91-20-3	8270D	ND		370	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		370	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		370	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		370	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		370	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		370	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		920	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		920	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		370	ug/kg	1
Phenol	108-95-2	8270D	ND		370	ug/kg	1
Pyrene	129-00-0	8270D	ND		370	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		370	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		370	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		78	30-117
2-Fluorobiphenyl		61	33-102
2-Fluorophenol		63	28-104
Nitrobenzene-d5		61	22-109
Phenol-d5		66	27-103
Terphenyl-d14		80	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-SS-53
Date Sampled: 08/24/2016 1657
Date Received: 08/26/2016

Laboratory ID: RH26003-025
Matrix: Solid
% Solids: 88.1 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	500	09/02/2016 1528	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		5700	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		5700	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		5700	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		5700	ug/kg	1
Aroclor 1248	12672-29-6	8082A	42000		5700	ug/kg	1
Aroclor 1254	11097-69-1	8082A	48000		5700	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		5700	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		106	41-132
Tetrachloro-m-xylene		51	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-SS-53
Date Sampled: 08/24/2016 1657
Date Received: 08/26/2016

Laboratory ID: RH26003-025
Matrix: Solid
% Solids: 88.1 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	50	09/02/2016 1311	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		57	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		57	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		57	ug/kg	1
beta-BHC	319-85-7	8081B	ND		57	ug/kg	1
delta-BHC	319-86-8	8081B	ND		57	ug/kg	1
Chlordane	57-74-9	8081B	ND		110	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		57	ug/kg	1
trans-Chlordane	5103-74-2	8081B	1200		57	ug/kg	1
4,4'-DDD	72-54-8	8081B	61	P	57	ug/kg	1
4,4'-DDE	72-55-9	8081B	57	P	57	ug/kg	1
4,4'-DDT	50-29-3	8081B	1300		57	ug/kg	1
Dieldrin	60-57-1	8081B	2200		57	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		57	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		57	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	130		57	ug/kg	1
Endrin	72-20-8	8081B	290	P	57	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	100	P	57	ug/kg	1
Endrin ketone	53494-70-5	8081B	220		57	ug/kg	1
Heptachlor	76-44-8	8081B	ND		57	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	120	P	57	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		230	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		570	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	124	57-110
Tetrachloro-m-xylene		59	37-91

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-SS-53
Date Sampled: 08/24/2016 1657
Date Received: 08/26/2016

Laboratory ID: RH26003-025
Matrix: Solid
% Solids: 88.1 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1231	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1504	CJZ	08/31/2016 1101	21039
3	3050B	6010C	1	09/07/2016 1352	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	11000		16	mg/kg	3
Antimony	7440-36-0	6010C	ND		0.79	mg/kg	1
Arsenic	7440-38-2	6010C	1.7		0.59	mg/kg	1
Barium	7440-39-3	6010C	24		1.0	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.20	mg/kg	3
Cadmium	7440-43-9	6010C	ND		0.20	mg/kg	1
Calcium	7440-70-2	6010C	390		200	mg/kg	1
Chromium	7440-47-3	6010C	15		0.39	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.0	mg/kg	1
Copper	7440-50-8	6010C	5.5		0.39	mg/kg	1
Iron	7439-89-6	6010C	9000		3.9	mg/kg	3
Lead	7439-92-1	6010C	8.7		0.39	mg/kg	1
Magnesium	7439-95-4	6010C	240		200	mg/kg	1
Manganese	7439-96-5	6010C	38		0.59	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.090	mg/kg	1
Nickel	7440-02-0	6010C	3.3		1.6	mg/kg	1
Potassium	7440-09-7	6010C	ND		200	mg/kg	3
Selenium	7782-49-2	6010C	ND		0.79	mg/kg	1
Silver	7440-22-4	6010C	ND		0.39	mg/kg	1
Sodium	7440-23-5	6010C	ND		200	mg/kg	3
Thallium	7440-28-0	6010C	ND		2.0	mg/kg	1
Vanadium	7440-62-2	6010C	24		2.0	mg/kg	1
Zinc	7440-66-6	6010C	21		2.0	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-026
Description: BL-SD-19	Matrix: Solid
Date Sampled: 08/22/2016 1520	% Solids: 77.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1851	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.64	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SD-19
Date Sampled: 08/22/2016 1520
Date Received: 08/26/2016

Laboratory ID: RH26003-026
Matrix: Solid
% Solids: 77.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1718	RBH	08/31/2016 2310	21109

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		420	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		420	ug/kg	1
Acetophenone	98-86-2	8270D	ND		420	ug/kg	1
Anthracene	120-12-7	8270D	ND		420	ug/kg	1
Atrazine	1912-24-9	8270D	ND		420	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		420	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		420	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		420	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		420	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		420	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		420	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		420	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		420	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1100	ug/kg	1
Carbazole	86-74-8	8270D	ND		420	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		420	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		420	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		420	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		420	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		420	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		420	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		420	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		420	ug/kg	1
Chrysene	218-01-9	8270D	ND		420	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		420	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		420	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		420	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		420	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1100	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		420	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		420	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		420	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		420	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1100	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1100	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		420	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		420	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		420	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		420	ug/kg	1
Fluorene	86-73-7	8270D	ND		420	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		420	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		420	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1100	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SD-19
Date Sampled: 08/22/2016 1520
Date Received: 08/26/2016

Laboratory ID: RH26003-026
Matrix: Solid
% Solids: 77.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1718	RBH	08/31/2016 2310	21109

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		420	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		420	ug/kg	1
Isophorone	78-59-1	8270D	ND		420	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		420	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		420	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		850	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		420	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		420	ug/kg	1
Naphthalene	91-20-3	8270D	ND		420	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		420	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		420	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		420	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		420	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		420	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1100	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1100	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		420	ug/kg	1
Phenol	108-95-2	8270D	ND		420	ug/kg	1
Pyrene	129-00-0	8270D	ND		420	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		420	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		420	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		71	30-117
2-Fluorobiphenyl		59	33-102
2-Fluorophenol		64	28-104
Nitrobenzene-d5		60	22-109
Phenol-d5		66	27-103
Terphenyl-d14		75	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-026
Description: BL-SD-19	Matrix: Solid
Date Sampled: 08/22/2016 1520	% Solids: 77.6 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/02/2016 1900	MEM	09/01/2016 1342	21164

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		13	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		13	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		13	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		13	ug/kg	1
Aroclor 1248	12672-29-6	8082A	47		13	ug/kg	1
Aroclor 1254	11097-69-1	8082A	45		13	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		13	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		90	41-132
Tetrachloro-m-xylene		93	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-SD-19
Date Sampled: 08/22/2016 1520
Date Received: 08/26/2016

Laboratory ID: RH26003-026
Matrix: Solid
% Solids: 77.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/06/2016 1708	PMS	09/01/2016 1342	21166

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.3	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.3	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.3	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.3	ug/kg	1
Chlordane	57-74-9	8081B	ND		2.6	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1.3	ug/kg	1
trans-Chlordane	5103-74-2	8081B	1.3	P	1.3	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	6.0		1.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	2.3	P	1.3	ug/kg	1
Dieldrin	60-57-1	8081B	1.7	P	1.3	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.3	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.3	ug/kg	1
Endrin	72-20-8	8081B	ND		1.3	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.3	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.3	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		5.1	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		13	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		93	57-110
Tetrachloro-m-xylene		89	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-SD-19
Date Sampled: 08/22/2016 1520
Date Received: 08/26/2016

Laboratory ID: RH26003-026
Matrix: Solid
% Solids: 77.6 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1234	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1517	CJZ	08/31/2016 1101	21039
2	3050B	6010C	1	09/07/2016 1357	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	6100		19	mg/kg	2
Antimony	7440-36-0	6010C	ND		0.95	mg/kg	1
Arsenic	7440-38-2	6010C	ND		0.72	mg/kg	1
Barium	7440-39-3	6010C	31		1.2	mg/kg	2
Beryllium	7440-41-7	6010C	ND		0.24	mg/kg	2
Cadmium	7440-43-9	6010C	ND		0.24	mg/kg	1
Calcium	7440-70-2	6010C	ND		240	mg/kg	1
Chromium	7440-47-3	6010C	6.2		0.48	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.2	mg/kg	1
Copper	7440-50-8	6010C	3.4		0.48	mg/kg	1
Iron	7439-89-6	6010C	3100		4.8	mg/kg	2
Lead	7439-92-1	6010C	11		0.48	mg/kg	1
Magnesium	7439-95-4	6010C	ND		240	mg/kg	1
Manganese	7439-96-5	6010C	20		0.72	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.098	mg/kg	1
Nickel	7440-02-0	6010C	2.3		1.9	mg/kg	1
Potassium	7440-09-7	6010C	ND		240	mg/kg	2
Selenium	7782-49-2	6010C	ND		0.95	mg/kg	1
Silver	7440-22-4	6010C	ND		0.48	mg/kg	1
Sodium	7440-23-5	6010C	ND		240	mg/kg	2
Thallium	7440-28-0	6010C	ND		2.4	mg/kg	1
Vanadium	7440-62-2	6010C	10		2.4	mg/kg	1
Zinc	7440-66-6	6010C	15		2.4	mg/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-027
Description: BL-DS-19	Matrix: Solid
Date Sampled: 08/22/2016 1525	% Solids: 75.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1852	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.66	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-DS-19
Date Sampled: 08/22/2016 1525
Date Received: 08/26/2016

Laboratory ID: RH26003-027
Matrix: Solid
% Solids: 75.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1742	RBH	08/31/2016 2310	21109

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		430	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		430	ug/kg	1
Acetophenone	98-86-2	8270D	ND		430	ug/kg	1
Anthracene	120-12-7	8270D	ND		430	ug/kg	1
Atrazine	1912-24-9	8270D	ND		430	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		1100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		430	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		430	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		430	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		430	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		430	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		430	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		430	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		430	ug/kg	1
Caprolactam	105-60-2	8270D	ND		1100	ug/kg	1
Carbazole	86-74-8	8270D	ND		430	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		430	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		430	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		430	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		430	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		430	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		430	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		430	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		430	ug/kg	1
Chrysene	218-01-9	8270D	ND		430	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		430	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		430	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		430	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		430	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		1100	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		430	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		430	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		430	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		430	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		1100	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		1100	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		430	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		430	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		430	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		430	ug/kg	1
Fluorene	86-73-7	8270D	ND		430	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		430	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		430	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		1100	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-027
Description: BL-DS-19	Matrix: Solid
Date Sampled: 08/22/2016 1525	% Solids: 75.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/06/2016 1742	RBH	08/31/2016 2310	21109

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		430	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		430	ug/kg	1
Isophorone	78-59-1	8270D	ND		430	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		430	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		430	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		880	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		430	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		430	ug/kg	1
Naphthalene	91-20-3	8270D	ND		430	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		430	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		430	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		430	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		430	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		430	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		1100	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		1100	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		430	ug/kg	1
Phenol	108-95-2	8270D	ND		430	ug/kg	1
Pyrene	129-00-0	8270D	ND		430	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		430	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		430	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		76	30-117
2-Fluorobiphenyl		58	33-102
2-Fluorophenol		61	28-104
Nitrobenzene-d5		57	22-109
Phenol-d5		65	27-103
Terphenyl-d14		75	41-120

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the PQL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-027
Description: BL-DS-19	Matrix: Solid
Date Sampled: 08/22/2016 1525	% Solids: 75.9 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/02/2016 1741	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		13	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		13	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		13	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		13	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		13	ug/kg	1
Aroclor 1254	11097-69-1	8082A	ND		13	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		13	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		79	41-132
Tetrachloro-m-xylene		81	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-DS-19
Date Sampled: 08/22/2016 1525
Date Received: 08/26/2016

Laboratory ID: RH26003-027
Matrix: Solid
% Solids: 75.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	1	09/02/2016 1326	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		1.3	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		1.3	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		1.3	ug/kg	1
beta-BHC	319-85-7	8081B	ND		1.3	ug/kg	1
delta-BHC	319-86-8	8081B	ND		1.3	ug/kg	1
Chlordane	57-74-9	8081B	ND		2.6	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		1.3	ug/kg	1
trans-Chlordane	5103-74-2	8081B	ND		1.3	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		1.3	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		1.3	ug/kg	1
4,4'-DDT	50-29-3	8081B	ND		1.3	ug/kg	1
Dieldrin	60-57-1	8081B	ND		1.3	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		1.3	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		1.3	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		1.3	ug/kg	1
Endrin	72-20-8	8081B	ND		1.3	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		1.3	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		1.3	ug/kg	1
Heptachlor	76-44-8	8081B	ND		1.3	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		1.3	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		5.2	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		13	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		76	57-110
Tetrachloro-m-xylene		77	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
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E = Quantitation of compound exceeded the calibration range
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H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-DS-19
Date Sampled: 08/22/2016 1525
Date Received: 08/26/2016

Laboratory ID: RH26003-027
Matrix: Solid
% Solids: 75.9 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1236	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1522	CJZ	08/31/2016 1101	21039
2	3050B	6010C	1	09/07/2016 1401	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	7100		19	mg/kg	2
Antimony	7440-36-0	6010C	ND		0.96	mg/kg	1
Arsenic	7440-38-2	6010C	1.0		0.72	mg/kg	1
Barium	7440-39-3	6010C	51		1.3	mg/kg	2
Beryllium	7440-41-7	6010C	ND		0.24	mg/kg	2
Cadmium	7440-43-9	6010C	ND		0.24	mg/kg	1
Calcium	7440-70-2	6010C	ND		240	mg/kg	1
Chromium	7440-47-3	6010C	7.6		0.48	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.3	mg/kg	1
Copper	7440-50-8	6010C	3.3		0.48	mg/kg	1
Iron	7439-89-6	6010C	4800		4.8	mg/kg	2
Lead	7439-92-1	6010C	7.6		0.48	mg/kg	1
Magnesium	7439-95-4	6010C	ND		240	mg/kg	1
Manganese	7439-96-5	6010C	32		0.72	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.11	mg/kg	1
Nickel	7440-02-0	6010C	2.6		1.9	mg/kg	1
Potassium	7440-09-7	6010C	ND		240	mg/kg	2
Selenium	7782-49-2	6010C	ND		0.96	mg/kg	1
Silver	7440-22-4	6010C	ND		0.48	mg/kg	1
Sodium	7440-23-5	6010C	ND		240	mg/kg	2
Thallium	7440-28-0	6010C	ND		2.4	mg/kg	1
Vanadium	7440-62-2	6010C	13		2.4	mg/kg	1
Zinc	7440-66-6	6010C	9.1		2.4	mg/kg	1

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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-48
Date Sampled: 08/25/2016 0957
Date Received: 08/26/2016

Laboratory ID: RH26003-028
Matrix: Solid
% Solids: 86.1 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/29/2016 2011	ECP		20911	5.45

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	110		21	ug/kg	1
Benzene	71-43-2	8260B	ND		5.3	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5.3	ug/kg	1
Bromoform	75-25-2	8260B	ND		5.3	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.3	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		21	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		5.3	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		5.3	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5.3	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5.3	ug/kg	1
Chloroform	67-66-3	8260B	ND		5.3	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.3	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		5.3	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.3	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5.3	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.3	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.3	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.3	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.3	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.3	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.3	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.3	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.3	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.3	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.3	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.3	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.3	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		11	ug/kg	1
Isopropylbenzene	98-82-8	8260B	77		5.3	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		5.3	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.3	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		11	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		5.3	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5.3	ug/kg	1
Styrene	100-42-5	8260B	ND		5.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.3	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		5.3	ug/kg	1
Toluene	108-88-3	8260B	ND		5.3	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.3	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.3	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.3	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.3	ug/kg	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: synTerra	Laboratory ID: RH26003-028
Description: BL-SS-48	Matrix: Solid
Date Sampled: 08/25/2016 0957	% Solids: 86.1 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	08/29/2016 2011	ECP		20911	5.45

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.3	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.3	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5.3	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	53-142
Bromofluorobenzene		79	47-138
Toluene-d8		97	68-124

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-SS-75A
Date Sampled: 08/25/2016 1618
Date Received: 08/26/2016

Laboratory ID: RH26003-029
Matrix: Solid
% Solids: 84.5 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	20	09/07/2016 1440	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		240	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		240	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		240	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		240	ug/kg	1
Aroclor 1248	12672-29-6	8082A	2100		240	ug/kg	1
Aroclor 1254	11097-69-1	8082A	2900		240	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		240	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		105	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-030
Description: BL-SS-75B	Matrix: Solid
Date Sampled: 08/25/2016 1612	% Solids: 86.4 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/07/2016 1454	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		120	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		120	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		120	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		120	ug/kg	1
Aroclor 1248	12672-29-6	8082A	610		120	ug/kg	1
Aroclor 1254	11097-69-1	8082A	1800		120	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		120	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		97	41-132
Tetrachloro-m-xylene		87	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra
Description: BL-SS-75C
Date Sampled: 08/25/2016 1612
Date Received: 08/26/2016

Laboratory ID: RH26003-031
Matrix: Solid
% Solids: 87.9 08/26/2016 2125

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	1	09/07/2016 1507	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		11	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		11	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		11	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		11	ug/kg	1
Aroclor 1248	12672-29-6	8082A	ND		11	ug/kg	1
Aroclor 1254	11097-69-1	8082A	88		11	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		11	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		73	41-132
Tetrachloro-m-xylene		75	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-032
Description: BL-SS-75D	Matrix: Solid
Date Sampled: 08/25/2016 1622	% Solids: 90.0 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/07/2016 1520	MEM	09/02/2016 1925	21292

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		110	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		110	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		110	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		110	ug/kg	1
Aroclor 1248	12672-29-6	8082A	410		110	ug/kg	1
Aroclor 1254	11097-69-1	8082A	610		110	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		84	41-132
Tetrachloro-m-xylene		87	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: synTerra	Laboratory ID: RH26003-033
Description: BL-SS-67-DUP	Matrix: Solid
Date Sampled: 08/24/2016 1336	% Solids: 87.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	9012B	(Cyanide - To) 9012B	1	09/02/2016 1853	MJI	09/02/2016 1237	21262

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Cyanide - Total	57-12-5	9012B	ND		0.57	mg/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-67-DUP
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-033
Matrix: Solid
% Solids: 87.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 2010	RBH	08/31/2016 2310	21109

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acenaphthene	83-32-9	8270D	ND		370	ug/kg	1
Acenaphthylene	208-96-8	8270D	ND		370	ug/kg	1
Acetophenone	98-86-2	8270D	ND		370	ug/kg	1
Anthracene	120-12-7	8270D	ND		370	ug/kg	1
Atrazine	1912-24-9	8270D	ND		370	ug/kg	1
Benzaldehyde	100-52-7	8270D	ND		930	ug/kg	1
Benzo(a)anthracene	56-55-3	8270D	ND		370	ug/kg	1
Benzo(a)pyrene	50-32-8	8270D	ND		370	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		370	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270D	ND		370	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		370	ug/kg	1
1,1'-Biphenyl	92-52-4	8270D	ND		370	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270D	ND		370	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270D	ND		370	ug/kg	1
Caprolactam	105-60-2	8270D	ND		930	ug/kg	1
Carbazole	86-74-8	8270D	ND		370	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270D	ND		370	ug/kg	1
4-Chloroaniline	106-47-8	8270D	ND		370	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270D	ND		370	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270D	ND		370	ug/kg	1
bis (2-Chloro-1-methylethyl) ether	108-60-1	8270D	ND		370	ug/kg	1
2-Chloronaphthalene	91-58-7	8270D	ND		370	ug/kg	1
2-Chlorophenol	95-57-8	8270D	ND		370	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270D	ND		370	ug/kg	1
Chrysene	218-01-9	8270D	ND		370	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270D	ND		370	ug/kg	1
Di-n-octylphthalate	117-84-0	8270D	ND		370	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		370	ug/kg	1
Dibenzofuran	132-64-9	8270D	ND		370	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270D	ND		930	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270D	ND		370	ug/kg	1
Diethylphthalate	84-66-2	8270D	ND		370	ug/kg	1
Dimethyl phthalate	131-11-3	8270D	ND		370	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270D	ND		370	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270D	ND		930	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270D	ND		930	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270D	ND		370	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270D	ND		370	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270D	ND		370	ug/kg	1
Fluoranthene	206-44-0	8270D	ND		370	ug/kg	1
Fluorene	86-73-7	8270D	ND		370	ug/kg	1
Hexachlorobenzene	118-74-1	8270D	ND		370	ug/kg	1
Hexachlorobutadiene	87-68-3	8270D	ND		370	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270D	ND		930	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Semivolatile Organic Compounds by GC/MS

Client: synTerra
Description: BL-SS-67-DUP
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-033
Matrix: Solid
% Solids: 87.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550C	8270D	1	09/02/2016 2010	RBH	08/31/2016 2310	21109

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Hexachloroethane	67-72-1	8270D	ND		370	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270D	ND		370	ug/kg	1
Isophorone	78-59-1	8270D	ND		370	ug/kg	1
2-Methylnaphthalene	91-57-6	8270D	ND		370	ug/kg	1
2-Methylphenol	95-48-7	8270D	ND		370	ug/kg	1
3+4-Methylphenol	106-44-5	8270D	ND		750	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270D	ND		370	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270D	ND		370	ug/kg	1
Naphthalene	91-20-3	8270D	ND		370	ug/kg	1
2-Nitroaniline	88-74-4	8270D	ND		370	ug/kg	1
3-Nitroaniline	99-09-2	8270D	ND		370	ug/kg	1
4-Nitroaniline	100-01-6	8270D	ND		370	ug/kg	1
Nitrobenzene	98-95-3	8270D	ND		370	ug/kg	1
2-Nitrophenol	88-75-5	8270D	ND		370	ug/kg	1
4-Nitrophenol	100-02-7	8270D	ND		930	ug/kg	1
Pentachlorophenol	87-86-5	8270D	ND		930	ug/kg	1
Phenanthrene	85-01-8	8270D	ND		370	ug/kg	1
Phenol	108-95-2	8270D	ND		370	ug/kg	1
Pyrene	129-00-0	8270D	ND		370	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270D	ND		370	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270D	ND		370	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		68	30-117
2-Fluorobiphenyl		58	33-102
2-Fluorophenol		61	28-104
Nitrobenzene-d5		59	22-109
Phenol-d5		64	27-103
Terphenyl-d14		87	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

PCBs by GC

Client: synTerra	Laboratory ID: RH26003-033
Description: BL-SS-67-DUP	Matrix: Solid
Date Sampled: 08/24/2016 1336	% Solids: 87.3 08/26/2016 2125
Date Received: 08/26/2016	

Run	Prep Method	Cleanup	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	3660B/3665A	8082A	10	09/01/2016 2159	MEM	08/31/2016 2206	21111

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aroclor 1016	12674-11-2	8082A	ND		110	ug/kg	1
Aroclor 1221	11104-28-2	8082A	ND		110	ug/kg	1
Aroclor 1232	11141-16-5	8082A	ND		110	ug/kg	1
Aroclor 1242	53469-21-9	8082A	ND		110	ug/kg	1
Aroclor 1248	12672-29-6	8082A	1200		110	ug/kg	1
Aroclor 1254	11097-69-1	8082A	1600		110	ug/kg	1
Aroclor 1260	11096-82-5	8082A	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		76	41-132
Tetrachloro-m-xylene		67	35-106

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Organochlorine Pesticides by GC

Client: synTerra
Description: BL-SS-67-DUP
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-033
Matrix: Solid
% Solids: 87.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3546	8081B	10	09/02/2016 1341	PMS	08/31/2016 2206	21110

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aldrin	309-00-2	8081B	ND		11	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081B	ND		11	ug/kg	1
alpha-BHC	319-84-6	8081B	ND		11	ug/kg	1
beta-BHC	319-85-7	8081B	ND		11	ug/kg	1
delta-BHC	319-86-8	8081B	ND		11	ug/kg	1
Chlordane	57-74-9	8081B	ND		22	ug/kg	1
cis-Chlordane	5103-71-9	8081B	ND		11	ug/kg	1
trans-Chlordane	5103-74-2	8081B	27		11	ug/kg	1
4,4'-DDD	72-54-8	8081B	ND		11	ug/kg	1
4,4'-DDE	72-55-9	8081B	ND		11	ug/kg	1
4,4'-DDT	50-29-3	8081B	47		11	ug/kg	1
Dieldrin	60-57-1	8081B	46		11	ug/kg	1
Endosulfan I	959-98-8	8081B	ND		11	ug/kg	1
Endosulfan II	33213-65-9	8081B	ND		11	ug/kg	1
Endosulfan sulfate	1031-07-8	8081B	ND		11	ug/kg	1
Endrin	72-20-8	8081B	ND		11	ug/kg	1
Endrin aldehyde	7421-93-4	8081B	ND		11	ug/kg	1
Endrin ketone	53494-70-5	8081B	ND		11	ug/kg	1
Heptachlor	76-44-8	8081B	ND		11	ug/kg	1
Heptachlor epoxide	1024-57-3	8081B	ND		11	ug/kg	1
Methoxychlor	72-43-5	8081B	ND		45	ug/kg	1
Toxaphene	8001-35-2	8081B	ND		110	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		70	57-110
Tetrachloro-m-xylene		68	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

TAL Metals

Client: synTerra
Description: BL-SS-67-DUP
Date Sampled: 08/24/2016 1336
Date Received: 08/26/2016

Laboratory ID: RH26003-033
Matrix: Solid
% Solids: 87.3 08/26/2016 2125

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7471B	7471B	1	08/30/2016 1238	CLM	08/29/2016 0936	20870
1	3050B	6010C	1	09/03/2016 1526	CJZ	08/31/2016 1101	21039
3	3050B	6010C	1	09/07/2016 1406	CJZ	08/31/2016 1101	21039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	18000		20	mg/kg	3
Antimony	7440-36-0	6010C	ND		0.99	mg/kg	1
Arsenic	7440-38-2	6010C	2.1		0.74	mg/kg	1
Barium	7440-39-3	6010C	34		1.3	mg/kg	3
Beryllium	7440-41-7	6010C	ND		0.25	mg/kg	3
Cadmium	7440-43-9	6010C	ND		0.25	mg/kg	1
Calcium	7440-70-2	6010C	950		250	mg/kg	1
Chromium	7440-47-3	6010C	18		0.49	mg/kg	1
Cobalt	7440-48-4	6010C	ND		1.3	mg/kg	1
Copper	7440-50-8	6010C	6.4		0.49	mg/kg	1
Iron	7439-89-6	6010C	12000		4.9	mg/kg	3
Lead	7439-92-1	6010C	8.4		0.49	mg/kg	1
Magnesium	7439-95-4	6010C	380		250	mg/kg	1
Manganese	7439-96-5	6010C	96		0.74	mg/kg	1
Mercury	7439-97-6	7471B	ND		0.093	mg/kg	1
Nickel	7440-02-0	6010C	5.8		2.0	mg/kg	1
Potassium	7440-09-7	6010C	380		250	mg/kg	3
Selenium	7782-49-2	6010C	ND		0.99	mg/kg	1
Silver	7440-22-4	6010C	ND		0.49	mg/kg	1
Sodium	7440-23-5	6010C	ND		250	mg/kg	3
Thallium	7440-28-0	6010C	ND		2.5	mg/kg	1
Vanadium	7440-62-2	6010C	33		2.5	mg/kg	1
Zinc	7440-66-6	6010C	14		2.5	mg/kg	3

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Inorganic non-metals - MB

Sample ID: RQ20971-001
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Cyanide - Total	ND		1	0.50	mg/kg	08/30/2016 1754

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: RQ20971-002
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	5.0	4.9		1	98	90-110	08/30/2016 1755

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: RH26003-021MS
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	ND	5.1	5.2		1	103	70-130	08/30/2016 1828

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: RH26003-021MD
Batch: 20971
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 08/30/2016 1145

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	ND	5.1	5.2		1	103	0.017	70-130	20	08/30/2016 1829

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MB

Sample ID: RQ21262-001
Batch: 21262
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 09/02/2016 1237

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Cyanide - Total	ND		1	0.50	mg/kg	09/02/2016 1832

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - LCS

Sample ID: RQ21262-002
Batch: 21262
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 09/02/2016 1237

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	5.0	5.0		1	100	90-110	09/02/2016 1833

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MS

Sample ID: RH26003-024MS
Batch: 21262
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 09/02/2016 1237

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Cyanide - Total	ND	5.8	5.8		1	99	70-130	09/02/2016 1847

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Inorganic non-metals - MSD

Sample ID: RH26003-024MD
Batch: 21262
Analytical Method: 9012B

Matrix: Solid
Prep Method: 9012B
Prep Date: 09/02/2016 1237

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Cyanide - Total	ND	5.8	5.7		1	98	0.95	70-130	20	09/02/2016 1848

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ20911-001
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	20	ug/kg	08/29/2016 1847
Benzene	ND		1	5.0	ug/kg	08/29/2016 1847
Bromodichloromethane	ND		1	5.0	ug/kg	08/29/2016 1847
Bromoform	ND		1	5.0	ug/kg	08/29/2016 1847
Bromomethane (Methyl bromide)	ND		1	5.0	ug/kg	08/29/2016 1847
2-Butanone (MEK)	ND		1	20	ug/kg	08/29/2016 1847
Carbon disulfide	ND		1	5.0	ug/kg	08/29/2016 1847
Carbon tetrachloride	ND		1	5.0	ug/kg	08/29/2016 1847
Chlorobenzene	ND		1	5.0	ug/kg	08/29/2016 1847
Chloroethane	ND		1	5.0	ug/kg	08/29/2016 1847
Chloroform	ND		1	5.0	ug/kg	08/29/2016 1847
Chloromethane (Methyl chloride)	ND		1	5.0	ug/kg	08/29/2016 1847
Cyclohexane	ND		1	5.0	ug/kg	08/29/2016 1847
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	ug/kg	08/29/2016 1847
Dibromochloromethane	ND		1	5.0	ug/kg	08/29/2016 1847
1,2-Dibromoethane (EDB)	ND		1	5.0	ug/kg	08/29/2016 1847
1,4-Dichlorobenzene	ND		1	5.0	ug/kg	08/29/2016 1847
1,3-Dichlorobenzene	ND		1	5.0	ug/kg	08/29/2016 1847
1,2-Dichlorobenzene	ND		1	5.0	ug/kg	08/29/2016 1847
Dichlorodifluoromethane	ND		1	5.0	ug/kg	08/29/2016 1847
1,2-Dichloroethane	ND		1	5.0	ug/kg	08/29/2016 1847
1,1-Dichloroethane	ND		1	5.0	ug/kg	08/29/2016 1847
trans-1,2-Dichloroethene	ND		1	5.0	ug/kg	08/29/2016 1847
cis-1,2-Dichloroethene	ND		1	5.0	ug/kg	08/29/2016 1847
1,1-Dichloroethene	ND		1	5.0	ug/kg	08/29/2016 1847
1,2-Dichloropropane	ND		1	5.0	ug/kg	08/29/2016 1847
trans-1,3-Dichloropropene	ND		1	5.0	ug/kg	08/29/2016 1847
cis-1,3-Dichloropropene	ND		1	5.0	ug/kg	08/29/2016 1847
Ethylbenzene	ND		1	5.0	ug/kg	08/29/2016 1847
2-Hexanone	ND		1	10	ug/kg	08/29/2016 1847
Isopropylbenzene	ND		1	5.0	ug/kg	08/29/2016 1847
Methyl acetate	ND		1	5.0	ug/kg	08/29/2016 1847
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	ug/kg	08/29/2016 1847
4-Methyl-2-pentanone	ND		1	10	ug/kg	08/29/2016 1847
Methylcyclohexane	ND		1	5.0	ug/kg	08/29/2016 1847
Methylene chloride	ND		1	5.0	ug/kg	08/29/2016 1847
Styrene	ND		1	5.0	ug/kg	08/29/2016 1847
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/kg	08/29/2016 1847
Tetrachloroethene	ND		1	5.0	ug/kg	08/29/2016 1847
Toluene	ND		1	5.0	ug/kg	08/29/2016 1847
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	ug/kg	08/29/2016 1847
1,2,4-Trichlorobenzene	ND		1	5.0	ug/kg	08/29/2016 1847
1,1,2-Trichloroethane	ND		1	5.0	ug/kg	08/29/2016 1847
1,1,1-Trichloroethane	ND		1	5.0	ug/kg	08/29/2016 1847

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ20911-001
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	5.0	ug/kg	08/29/2016 1847
Trichlorofluoromethane	ND		1	5.0	ug/kg	08/29/2016 1847
Vinyl chloride	ND		1	5.0	ug/kg	08/29/2016 1847
Xylenes (total)	ND		1	10	ug/kg	08/29/2016 1847

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		91	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		99	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20911-002
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	120		1	124	60-140	08/29/2016 1750
Benzene	50	55		1	109	69-123	08/29/2016 1750
Bromodichloromethane	50	53		1	106	69-121	08/29/2016 1750
Bromoform	50	42		1	83	61-119	08/29/2016 1750
Bromomethane (Methyl bromide)	50	49		1	99	10-168	08/29/2016 1750
2-Butanone (MEK)	100	100		1	104	57-148	08/29/2016 1750
Carbon disulfide	50	60		1	120	58-122	08/29/2016 1750
Carbon tetrachloride	50	55		1	111	58-136	08/29/2016 1750
Chlorobenzene	50	50		1	99	59-129	08/29/2016 1750
Chloroethane	50	50		1	99	60-140	08/29/2016 1750
Chloroform	50	55		1	110	71-125	08/29/2016 1750
Chloromethane (Methyl chloride)	50	49		1	98	34-134	08/29/2016 1750
Cyclohexane	50	58		1	116	53-139	08/29/2016 1750
1,2-Dibromo-3-chloropropane (DBCP)	50	42		1	83	55-125	08/29/2016 1750
Dibromochloromethane	50	47		1	95	66-119	08/29/2016 1750
1,2-Dibromoethane (EDB)	50	48		1	96	74-124	08/29/2016 1750
1,4-Dichlorobenzene	50	46		1	93	52-133	08/29/2016 1750
1,3-Dichlorobenzene	50	46		1	92	51-134	08/29/2016 1750
1,2-Dichlorobenzene	50	46		1	91	57-131	08/29/2016 1750
Dichlorodifluoromethane	50	55		1	109	10-157	08/29/2016 1750
1,2-Dichloroethane	50	56		1	112	67-129	08/29/2016 1750
1,1-Dichloroethane	50	59		1	118	71-127	08/29/2016 1750
trans-1,2-Dichloroethene	50	59		1	117	68-131	08/29/2016 1750
cis-1,2-Dichloroethene	50	56		1	112	70-122	08/29/2016 1750
1,1-Dichloroethene	50	60		1	120	69-138	08/29/2016 1750
1,2-Dichloropropane	50	53		1	107	72-124	08/29/2016 1750
trans-1,3-Dichloropropene	50	50		1	99	70-124	08/29/2016 1750
cis-1,3-Dichloropropene	50	52		1	104	70-126	08/29/2016 1750
Ethylbenzene	50	50		1	100	59-128	08/29/2016 1750
2-Hexanone	100	82		1	82	54-137	08/29/2016 1750
Isopropylbenzene	50	49		1	97	50-136	08/29/2016 1750
Methyl acetate	50	59		1	117	59-137	08/29/2016 1750
Methyl tertiary butyl ether (MTBE)	50	55		1	110	70-130	08/29/2016 1750
4-Methyl-2-pentanone	100	89		1	89	60-134	08/29/2016 1750
Methylcyclohexane	50	57		1	114	41-144	08/29/2016 1750
Methylene chloride	50	58		1	116	70-130	08/29/2016 1750
Styrene	50	48		1	96	54-136	08/29/2016 1750
1,1,2,2-Tetrachloroethane	50	42		1	85	69-132	08/29/2016 1750
Tetrachloroethene	50	54		1	108	45-150	08/29/2016 1750
Toluene	50	53		1	107	61-129	08/29/2016 1750
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	60		1	120	49-136	08/29/2016 1750
1,2,4-Trichlorobenzene	50	47		1	94	34-145	08/29/2016 1750
1,1,2-Trichloroethane	50	47		1	93	55-128	08/29/2016 1750
1,1,1-Trichloroethane	50	57		1	113	63-128	08/29/2016 1750

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20911-002
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	56		1	112	62-126	08/29/2016 1750
Trichlorofluoromethane	50	52		1	104	45-138	08/29/2016 1750
Vinyl chloride	50	49		1	97	42-132	08/29/2016 1750
Xylenes (total)	100	99		1	99	58-128	08/29/2016 1750

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		87	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		96	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: RH26003-022DU
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (ug/kg)	Result (ug/kg)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Acetone	49	29	+	1	50	20	08/30/2016 0044
Benzene	ND	ND		1	0.00	20	08/30/2016 0044
Bromodichloromethane	ND	ND		1	0.00	20	08/30/2016 0044
Bromoform	ND	ND		1	0.00	20	08/30/2016 0044
Bromomethane (Methyl bromide)	ND	ND		1	0.00	20	08/30/2016 0044
2-Butanone (MEK)	ND	ND		1	0.00	20	08/30/2016 0044
Carbon disulfide	ND	ND		1	0.00	20	08/30/2016 0044
Carbon tetrachloride	ND	ND		1	0.00	20	08/30/2016 0044
Chlorobenzene	ND	ND		1	0.00	20	08/30/2016 0044
Chloroethane	ND	ND		1	0.00	20	08/30/2016 0044
Chloroform	ND	ND		1	0.00	20	08/30/2016 0044
Chloromethane (Methyl chloride)	ND	ND		1	0.00	20	08/30/2016 0044
Cyclohexane	ND	ND		1	0.00	20	08/30/2016 0044
1,2-Dibromo-3-chloropropane (DBCP)	ND	ND		1	0.00	20	08/30/2016 0044
Dibromochloromethane	ND	ND		1	0.00	20	08/30/2016 0044
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	08/30/2016 0044
1,2-Dichlorobenzene	ND	ND		1	0.00	20	08/30/2016 0044
1,3-Dichlorobenzene	ND	ND		1	0.00	20	08/30/2016 0044
1,4-Dichlorobenzene	ND	ND		1	0.00	20	08/30/2016 0044
Dichlorodifluoromethane	ND	ND		1	0.00	20	08/30/2016 0044
1,1-Dichloroethane	ND	ND		1	0.00	20	08/30/2016 0044
1,2-Dichloroethane	ND	ND		1	0.00	20	08/30/2016 0044
1,1-Dichloroethene	ND	ND		1	0.00	20	08/30/2016 0044
cis-1,2-Dichloroethene	ND	ND		1	0.00	20	08/30/2016 0044
trans-1,2-Dichloroethene	ND	ND		1	0.00	20	08/30/2016 0044
1,2-Dichloropropane	ND	ND		1	0.00	20	08/30/2016 0044
cis-1,3-Dichloropropene	ND	ND		1	0.00	20	08/30/2016 0044
trans-1,3-Dichloropropene	ND	ND		1	0.00	20	08/30/2016 0044
Ethylbenzene	ND	ND		1	0.00	20	08/30/2016 0044
2-Hexanone	ND	ND		1	0.00	20	08/30/2016 0044
Isopropylbenzene	ND	ND		1	0.00	20	08/30/2016 0044
Methyl acetate	ND	ND		1	0.00	20	08/30/2016 0044
Methyl tertiary butyl ether (MTBE)	ND	ND		1	0.00	20	08/30/2016 0044
4-Methyl-2-pentanone	ND	ND		1	0.00	20	08/30/2016 0044
Methylcyclohexane	ND	ND		1	0.00	20	08/30/2016 0044
Methylene chloride	ND	ND		1	0.00	20	08/30/2016 0044
Styrene	ND	ND		1	0.00	20	08/30/2016 0044
1,1,2,2-Tetrachloroethane	ND	ND		1	0.00	20	08/30/2016 0044
Tetrachloroethene	ND	ND		1	0.00	20	08/30/2016 0044
Toluene	ND	ND		1	0.00	20	08/30/2016 0044
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND		1	0.00	20	08/30/2016 0044
1,2,4-Trichlorobenzene	ND	ND		1	0.00	20	08/30/2016 0044
1,1,1-Trichloroethane	ND	ND		1	0.00	20	08/30/2016 0044
1,1,2-Trichloroethane	ND	ND		1	0.00	20	08/30/2016 0044

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: RH26003-022DU
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (ug/kg)	Result (ug/kg)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Trichloroethene	ND	ND		1	0.00	20	08/30/2016 0044
Trichlorofluoromethane	ND	ND		1	0.00	20	08/30/2016 0044
Vinyl chloride	ND	ND		1	0.00	20	08/30/2016 0044
Xylenes (total)	ND	ND		1	0.00	20	08/30/2016 0044

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	53-142
Bromofluorobenzene		81	47-138
Toluene-d8		97	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: RH26003-023MS
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	15	75	160	N	1	213	60-140	08/30/2016 0106
Benzene	ND	37	53	N	1	143	69-123	08/30/2016 0106
Bromodichloromethane	ND	37	50	N	1	133	69-121	08/30/2016 0106
Bromoform	ND	37	37		1	99	61-119	08/30/2016 0106
Bromomethane (Methyl bromide)	ND	37	50		1	135	35-144	08/30/2016 0106
2-Butanone (MEK)	ND	75	95		1	127	57-148	08/30/2016 0106
Carbon disulfide	ND	37	64	N	1	171	58-122	08/30/2016 0106
Carbon tetrachloride	ND	37	59	N	1	158	58-136	08/30/2016 0106
Chlorobenzene	ND	37	46		1	123	59-129	08/30/2016 0106
Chloroethane	ND	37	53	N	1	142	50-132	08/30/2016 0106
Chloroform	ND	37	57	N	1	152	71-125	08/30/2016 0106
Chloromethane (Methyl chloride)	ND	37	52	N	1	139	34-134	08/30/2016 0106
Cyclohexane	ND	37	62	N	1	165	53-139	08/30/2016 0106
1,2-Dibromo-3-chloropropane (DBCP)	ND	37	36		1	97	55-125	08/30/2016 0106
Dibromochloromethane	ND	37	44		1	117	66-119	08/30/2016 0106
1,2-Dibromoethane (EDB)	ND	37	43		1	116	74-124	08/30/2016 0106
1,2-Dichlorobenzene	ND	37	41		1	109	57-131	08/30/2016 0106
1,3-Dichlorobenzene	ND	37	41		1	111	51-134	08/30/2016 0106
1,4-Dichlorobenzene	ND	37	41		1	109	52-133	08/30/2016 0106
Dichlorodifluoromethane	ND	37	63	N	1	167	10-157	08/30/2016 0106
1,1-Dichloroethane	ND	37	61	N	1	164	71-127	08/30/2016 0106
1,2-Dichloroethane	ND	37	55	N	1	148	67-129	08/30/2016 0106
1,1-Dichloroethene	ND	37	65	N	1	173	69-138	08/30/2016 0106
cis-1,2-Dichloroethene	ND	37	58	N	1	155	70-122	08/30/2016 0106
trans-1,2-Dichloroethene	ND	37	62	N	1	166	68-131	08/30/2016 0106
1,2-Dichloropropane	ND	37	51	N	1	136	72-124	08/30/2016 0106
cis-1,3-Dichloropropene	ND	37	48	N	1	130	70-126	08/30/2016 0106
trans-1,3-Dichloropropene	ND	37	45		1	122	70-124	08/30/2016 0106
Ethylbenzene	ND	37	47		1	127	59-128	08/30/2016 0106
2-Hexanone	ND	75	75		1	100	54-137	08/30/2016 0106
Isopropylbenzene	ND	37	48		1	127	50-136	08/30/2016 0106
Methyl acetate	3.9	37	69	N	1	185	59-137	08/30/2016 0106
Methyl tertiary butyl ether (MTBE)	ND	37	53	N	1	142	70-130	08/30/2016 0106
4-Methyl-2-pentanone	ND	75	82		1	110	60-134	08/30/2016 0106
Methylcyclohexane	ND	37	57	N	1	153	41-144	08/30/2016 0106
Methylene chloride	ND	37	58	N	1	156	77-129	08/30/2016 0106
Styrene	ND	37	44		1	118	54-136	08/30/2016 0106
1,1,2,2-Tetrachloroethane	ND	37	40		1	106	69-132	08/30/2016 0106
Tetrachloroethene	ND	37	53	N	1	141	70-130	08/30/2016 0106
Toluene	ND	37	52	N	1	139	61-129	08/30/2016 0106
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	37	65	N	1	173	49-136	08/30/2016 0106
1,2,4-Trichlorobenzene	ND	37	35		1	94	34-145	08/30/2016 0106
1,1,1-Trichloroethane	ND	37	59	N	1	158	63-128	08/30/2016 0106
1,1,2-Trichloroethane	ND	37	43		1	114	55-128	08/30/2016 0106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: RH26003-023MS
Batch: 20911
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	ND	37	54	N	1	144	62-126	08/30/2016 0106
Trichlorofluoromethane	ND	37	56	N	1	150	45-138	08/30/2016 0106
Vinyl chloride	ND	37	54	N	1	146	42-132	08/30/2016 0106
Xylenes (total)	ND	75	94		1	126	58-128	08/30/2016 0106

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	53-142
Bromofluorobenzene		89	47-138
Toluene-d8		99	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ20964-001
Batch: 20964
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	20	ug/kg	08/30/2016 1029
Benzene	ND		1	5.0	ug/kg	08/30/2016 1029
Bromodichloromethane	ND		1	5.0	ug/kg	08/30/2016 1029
Bromoform	ND		1	5.0	ug/kg	08/30/2016 1029
Bromomethane (Methyl bromide)	ND		1	5.0	ug/kg	08/30/2016 1029
2-Butanone (MEK)	ND		1	20	ug/kg	08/30/2016 1029
Carbon disulfide	ND		1	5.0	ug/kg	08/30/2016 1029
Carbon tetrachloride	ND		1	5.0	ug/kg	08/30/2016 1029
Chlorobenzene	ND		1	5.0	ug/kg	08/30/2016 1029
Chloroethane	ND		1	5.0	ug/kg	08/30/2016 1029
Chloroform	ND		1	5.0	ug/kg	08/30/2016 1029
Chloromethane (Methyl chloride)	ND		1	5.0	ug/kg	08/30/2016 1029
Cyclohexane	ND		1	5.0	ug/kg	08/30/2016 1029
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	ug/kg	08/30/2016 1029
Dibromochloromethane	ND		1	5.0	ug/kg	08/30/2016 1029
1,2-Dibromoethane (EDB)	ND		1	5.0	ug/kg	08/30/2016 1029
1,4-Dichlorobenzene	ND		1	5.0	ug/kg	08/30/2016 1029
1,3-Dichlorobenzene	ND		1	5.0	ug/kg	08/30/2016 1029
1,2-Dichlorobenzene	ND		1	5.0	ug/kg	08/30/2016 1029
Dichlorodifluoromethane	ND		1	5.0	ug/kg	08/30/2016 1029
1,2-Dichloroethane	ND		1	5.0	ug/kg	08/30/2016 1029
1,1-Dichloroethane	ND		1	5.0	ug/kg	08/30/2016 1029
trans-1,2-Dichloroethene	ND		1	5.0	ug/kg	08/30/2016 1029
cis-1,2-Dichloroethene	ND		1	5.0	ug/kg	08/30/2016 1029
1,1-Dichloroethene	ND		1	5.0	ug/kg	08/30/2016 1029
1,2-Dichloropropane	ND		1	5.0	ug/kg	08/30/2016 1029
trans-1,3-Dichloropropene	ND		1	5.0	ug/kg	08/30/2016 1029
cis-1,3-Dichloropropene	ND		1	5.0	ug/kg	08/30/2016 1029
Ethylbenzene	ND		1	5.0	ug/kg	08/30/2016 1029
2-Hexanone	ND		1	10	ug/kg	08/30/2016 1029
Isopropylbenzene	ND		1	5.0	ug/kg	08/30/2016 1029
Methyl acetate	ND		1	5.0	ug/kg	08/30/2016 1029
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	ug/kg	08/30/2016 1029
4-Methyl-2-pentanone	ND		1	10	ug/kg	08/30/2016 1029
Methylcyclohexane	ND		1	5.0	ug/kg	08/30/2016 1029
Methylene chloride	ND		1	5.0	ug/kg	08/30/2016 1029
Styrene	ND		1	5.0	ug/kg	08/30/2016 1029
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/kg	08/30/2016 1029
Tetrachloroethene	ND		1	5.0	ug/kg	08/30/2016 1029
Toluene	ND		1	5.0	ug/kg	08/30/2016 1029
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	ug/kg	08/30/2016 1029
1,2,4-Trichlorobenzene	ND		1	5.0	ug/kg	08/30/2016 1029
1,1,2-Trichloroethane	ND		1	5.0	ug/kg	08/30/2016 1029
1,1,1-Trichloroethane	ND		1	5.0	ug/kg	08/30/2016 1029

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ20964-001
Batch: 20964
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	5.0	ug/kg	08/30/2016 1029
Trichlorofluoromethane	ND		1	5.0	ug/kg	08/30/2016 1029
Vinyl chloride	ND		1	5.0	ug/kg	08/30/2016 1029
Xylenes (total)	ND		1	10	ug/kg	08/30/2016 1029

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	47-138
1,2-Dichloroethane-d4		99	53-142
Toluene-d8		101	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20964-002
Batch: 20964
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	111	60-140	08/30/2016 0931
Benzene	50	47		1	95	69-123	08/30/2016 0931
Bromodichloromethane	50	55		1	110	69-121	08/30/2016 0931
Bromoform	50	51		1	101	61-119	08/30/2016 0931
Bromomethane (Methyl bromide)	50	54		1	108	10-168	08/30/2016 0931
2-Butanone (MEK)	100	110		1	109	57-148	08/30/2016 0931
Carbon disulfide	50	47		1	94	58-122	08/30/2016 0931
Carbon tetrachloride	50	54		1	107	58-136	08/30/2016 0931
Chlorobenzene	50	54		1	108	59-129	08/30/2016 0931
Chloroethane	50	55		1	109	60-140	08/30/2016 0931
Chloroform	50	54		1	109	71-125	08/30/2016 0931
Chloromethane (Methyl chloride)	50	56		1	112	34-134	08/30/2016 0931
Cyclohexane	50	56		1	112	53-139	08/30/2016 0931
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	98	55-125	08/30/2016 0931
Dibromochloromethane	50	55		1	109	66-119	08/30/2016 0931
1,2-Dibromoethane (EDB)	50	52		1	104	74-124	08/30/2016 0931
1,4-Dichlorobenzene	50	53		1	107	52-133	08/30/2016 0931
1,3-Dichlorobenzene	50	54		1	108	51-134	08/30/2016 0931
1,2-Dichlorobenzene	50	53		1	106	57-131	08/30/2016 0931
Dichlorodifluoromethane	50	61		1	123	10-157	08/30/2016 0931
1,2-Dichloroethane	50	55		1	110	67-129	08/30/2016 0931
1,1-Dichloroethane	50	53		1	106	71-127	08/30/2016 0931
trans-1,2-Dichloroethene	50	51		1	103	68-131	08/30/2016 0931
cis-1,2-Dichloroethene	50	51		1	103	70-122	08/30/2016 0931
1,1-Dichloroethene	50	51		1	102	69-138	08/30/2016 0931
1,2-Dichloropropane	50	52		1	104	72-124	08/30/2016 0931
trans-1,3-Dichloropropene	50	55		1	109	70-124	08/30/2016 0931
cis-1,3-Dichloropropene	50	54		1	108	70-126	08/30/2016 0931
Ethylbenzene	50	54		1	108	59-128	08/30/2016 0931
2-Hexanone	100	100		1	104	54-137	08/30/2016 0931
Isopropylbenzene	50	56		1	111	50-136	08/30/2016 0931
Methyl acetate	50	46		1	92	59-137	08/30/2016 0931
Methyl tertiary butyl ether (MTBE)	50	46		1	91	70-130	08/30/2016 0931
4-Methyl-2-pentanone	100	110		1	109	60-134	08/30/2016 0931
Methylcyclohexane	50	55		1	109	41-144	08/30/2016 0931
Methylene chloride	50	48		1	96	70-130	08/30/2016 0931
Styrene	50	55		1	110	54-136	08/30/2016 0931
1,1,2,2-Tetrachloroethane	50	51		1	101	69-132	08/30/2016 0931
Tetrachloroethene	50	52		1	104	45-150	08/30/2016 0931
Toluene	50	52		1	104	61-129	08/30/2016 0931
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	56		1	111	49-136	08/30/2016 0931
1,2,4-Trichlorobenzene	50	52		1	103	34-145	08/30/2016 0931
1,1,2-Trichloroethane	50	54		1	108	55-128	08/30/2016 0931
1,1,1-Trichloroethane	50	54		1	108	63-128	08/30/2016 0931

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20964-002
Batch: 20964
Analytical Method: 8260B

Matrix: Solid
Prep Method: 5035

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	51		1	103	62-126	08/30/2016 0931
Trichlorofluoromethane	50	58		1	117	45-138	08/30/2016 0931
Vinyl chloride	50	55		1	110	42-132	08/30/2016 0931
Xylenes (total)	100	110		1	108	58-128	08/30/2016 0931

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		91	47-138
1,2-Dichloroethane-d4		96	53-142
Toluene-d8		100	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ20899-001
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1'-Biphenyl	ND		1	330	ug/kg	08/30/2016 0944
2,4,5-Trichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4,6-Trichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dichlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dimethylphenol	ND		1	330	ug/kg	08/30/2016 0944
2,4-Dinitrophenol	ND		1	830	ug/kg	08/30/2016 0944
2,4-Dinitrotoluene	ND		1	330	ug/kg	08/30/2016 0944
2,6-Dinitrotoluene	ND		1	330	ug/kg	08/30/2016 0944
2-Chloronaphthalene	ND		1	330	ug/kg	08/30/2016 0944
2-Chlorophenol	ND		1	330	ug/kg	08/30/2016 0944
2-Methylnaphthalene	ND		1	330	ug/kg	08/30/2016 0944
2-Methylphenol	ND		1	330	ug/kg	08/30/2016 0944
2-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
2-Nitrophenol	ND		1	330	ug/kg	08/30/2016 0944
3+4-Methylphenol	ND		1	670	ug/kg	08/30/2016 0944
3,3'-Dichlorobenzidine	ND		1	830	ug/kg	08/30/2016 0944
3-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
4,6-Dinitro-2-methylphenol	ND		1	830	ug/kg	08/30/2016 0944
4-Bromophenyl phenyl ether	ND		1	330	ug/kg	08/30/2016 0944
4-Chloro-3-methyl phenol	ND		1	330	ug/kg	08/30/2016 0944
4-Chloroaniline	ND		1	330	ug/kg	08/30/2016 0944
4-Chlorophenyl phenyl ether	ND		1	330	ug/kg	08/30/2016 0944
4-Nitroaniline	ND		1	330	ug/kg	08/30/2016 0944
4-Nitrophenol	ND		1	830	ug/kg	08/30/2016 0944
Acenaphthene	ND		1	330	ug/kg	08/30/2016 0944
Acenaphthylene	ND		1	330	ug/kg	08/30/2016 0944
Acetophenone	ND		1	330	ug/kg	08/30/2016 0944
Anthracene	ND		1	330	ug/kg	08/30/2016 0944
Atrazine	ND		1	330	ug/kg	08/30/2016 0944
Benzaldehyde	ND		1	830	ug/kg	08/30/2016 0944
Benzo(a)anthracene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(a)pyrene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(b)fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(g,h,i)perylene	ND		1	330	ug/kg	08/30/2016 0944
Benzo(k)fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
bis (2-Chloro-1-methylethyl) ether	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Chloroethoxy)methane	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Chloroethyl)ether	ND		1	330	ug/kg	08/30/2016 0944
bis(2-Ethylhexyl)phthalate	ND		1	330	ug/kg	08/30/2016 0944
Butyl benzyl phthalate	ND		1	330	ug/kg	08/30/2016 0944
Caprolactam	ND		1	830	ug/kg	08/30/2016 0944
Carbazole	ND		1	330	ug/kg	08/30/2016 0944
Chrysene	ND		1	330	ug/kg	08/30/2016 0944
Di-n-butyl phthalate	ND		1	330	ug/kg	08/30/2016 0944

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ20899-001
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Di-n-octylphthalate	ND		1	330	ug/kg	08/30/2016 0944
Dibenzo(a,h)anthracene	ND		1	330	ug/kg	08/30/2016 0944
Dibenzofuran	ND		1	330	ug/kg	08/30/2016 0944
Diethylphthalate	ND		1	330	ug/kg	08/30/2016 0944
Dimethyl phthalate	ND		1	330	ug/kg	08/30/2016 0944
Fluoranthene	ND		1	330	ug/kg	08/30/2016 0944
Fluorene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorobenzene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorobutadiene	ND		1	330	ug/kg	08/30/2016 0944
Hexachlorocyclopentadiene	ND		1	830	ug/kg	08/30/2016 0944
Hexachloroethane	ND		1	330	ug/kg	08/30/2016 0944
Indeno(1,2,3-c,d)pyrene	ND		1	330	ug/kg	08/30/2016 0944
Isophorone	ND		1	330	ug/kg	08/30/2016 0944
N-Nitrosodi-n-propylamine	ND		1	330	ug/kg	08/30/2016 0944
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	330	ug/kg	08/30/2016 0944
Naphthalene	ND		1	330	ug/kg	08/30/2016 0944
Nitrobenzene	ND		1	330	ug/kg	08/30/2016 0944
Pentachlorophenol	ND		1	830	ug/kg	08/30/2016 0944
Phenanthrene	ND		1	330	ug/kg	08/30/2016 0944
Phenol	ND		1	330	ug/kg	08/30/2016 0944
Pyrene	ND		1	330	ug/kg	08/30/2016 0944

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		61	30-117
2-Fluorobiphenyl		72	33-102
2-Fluorophenol		71	28-104
Nitrobenzene-d5		78	22-109
Phenol-d5		78	27-103
Terphenyl-d14		84	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20899-002
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	1700	1100		1	66	49-110	08/30/2016 1008
2,4,5-Trichlorophenol	1700	1100		1	67	46-122	08/30/2016 1008
2,4,6-Trichlorophenol	1700	1100		1	65	38-115	08/30/2016 1008
2,4-Dichlorophenol	3300	2100		1	62	41-113	08/30/2016 1008
2,4-Dimethylphenol	1700	1300		1	75	33-123	08/30/2016 1008
2,4-Dinitrophenol	1700	970		1	58	45-127	08/30/2016 1008
2,4-Dinitrotoluene	1700	1400		1	81	48-124	08/30/2016 1008
2,6-Dinitrotoluene	1700	1200		1	73	47-125	08/30/2016 1008
2-Chloronaphthalene	1700	1100		1	64	31-127	08/30/2016 1008
2-Chlorophenol	1700	1100		1	64	37-106	08/30/2016 1008
2-Methylnaphthalene	1700	1000		1	62	40-106	08/30/2016 1008
2-Methylphenol	1700	1300		1	76	32-107	08/30/2016 1008
2-Nitroaniline	1700	1300		1	77	45-123	08/30/2016 1008
2-Nitrophenol	1700	1000		1	63	35-108	08/30/2016 1008
3+4-Methylphenol	1700	1100		1	69	39-108	08/30/2016 1008
3,3'-Dichlorobenzidine	1700	1200		1	75	46-113	08/30/2016 1008
3-Nitroaniline	1700	1200		1	73	24-127	08/30/2016 1008
4,6-Dinitro-2-methylphenol	1700	1300		1	80	40-130	08/30/2016 1008
4-Bromophenyl phenyl ether	1700	1100		1	69	46-118	08/30/2016 1008
4-Chloro-3-methyl phenol	1700	1300		1	78	49-118	08/30/2016 1008
4-Chloroaniline	1700	1600		1	96	10-125	08/30/2016 1008
4-Chlorophenyl phenyl ether	1700	1100		1	65	47-116	08/30/2016 1008
4-Nitroaniline	1700	1400		1	85	48-127	08/30/2016 1008
4-Nitrophenol	3300	3300		1	100	18-154	08/30/2016 1008
Acenaphthene	1700	1200		1	72	46-114	08/30/2016 1008
Acenaphthylene	1700	1200		1	74	44-122	08/30/2016 1008
Acetophenone	1700	1000		1	60	48-111	08/30/2016 1008
Anthracene	1700	1300		1	81	50-119	08/30/2016 1008
Atrazine	1700	1300		1	76	48-116	08/30/2016 1008
Benzaldehyde	1700	1200		1	71	40-117	08/30/2016 1008
Benzo(a)anthracene	1700	1300		1	80	47-121	08/30/2016 1008
Benzo(a)pyrene	1700	1400		1	85	55-134	08/30/2016 1008
Benzo(b)fluoranthene	1700	1400		1	81	28-139	08/30/2016 1008
Benzo(g,h,i)perylene	1700	1300		1	78	36-125	08/30/2016 1008
Benzo(k)fluoranthene	1700	1400		1	82	47-130	08/30/2016 1008
bis (2-Chloro-1-methylethyl) ether	1700	1300		1	75	31-102	08/30/2016 1008
bis(2-Chloroethoxy)methane	1700	1100		1	68	39-108	08/30/2016 1008
bis(2-Chloroethyl)ether	1700	1300		1	76	32-105	08/30/2016 1008
bis(2-Ethylhexyl)phthalate	1700	1400		1	87	45-128	08/30/2016 1008
Butyl benzyl phthalate	1700	1600		1	95	46-128	08/30/2016 1008
Caprolactam	1700	1600		1	95	43-121	08/30/2016 1008
Carbazole	1700	1300		1	80	47-128	08/30/2016 1008
Chrysene	1700	1300		1	80	45-126	08/30/2016 1008
Di-n-butyl phthalate	1700	1500		1	89	51-129	08/30/2016 1008

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ20899-002
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	1700	1300		1	81	49-142	08/30/2016 1008
Dibenzo(a,h)anthracene	1700	1400		1	83	45-122	08/30/2016 1008
Dibenzofuran	1700	1100		1	68	45-112	08/30/2016 1008
Diethylphthalate	1700	1400		1	81	49-123	08/30/2016 1008
Dimethyl phthalate	1700	1200		1	75	48-120	08/30/2016 1008
Fluoranthene	1700	1300		1	77	50-123	08/30/2016 1008
Fluorene	1700	1200		1	69	48-117	08/30/2016 1008
Hexachlorobenzene	1700	1300		1	76	44-122	08/30/2016 1008
Hexachlorobutadiene	1700	970		1	58	33-103	08/30/2016 1008
Hexachlorocyclopentadiene	8300	3900		1	46	18-121	08/30/2016 1008
Hexachloroethane	1700	1100		1	64	30-96	08/30/2016 1008
Indeno(1,2,3-c,d)pyrene	1700	1400		1	85	45-123	08/30/2016 1008
Isophorone	1700	1200		1	70	41-113	08/30/2016 1008
N-Nitrosodi-n-propylamine	1700	1300		1	80	32-115	08/30/2016 1008
N-Nitrosodiphenylamine (Diphenylamine)	1700	1300		1	80	53-150	08/30/2016 1008
Naphthalene	1700	1100		1	65	36-110	08/30/2016 1008
Nitrobenzene	1700	1300		1	75	33-114	08/30/2016 1008
Pentachlorophenol	3300	2100		1	62	27-138	08/30/2016 1008
Phenanthrene	1700	1300		1	77	49-117	08/30/2016 1008
Phenol	1700	1100		1	65	36-108	08/30/2016 1008
Pyrene	1700	1400		1	87	47-119	08/30/2016 1008

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		69	30-117
2-Fluorobiphenyl		63	33-102
2-Fluorophenol		59	28-104
Nitrobenzene-d5		72	22-109
Phenol-d5		65	27-103
Terphenyl-d14		80	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: RH26003-018MS
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acenaphthene	ND	1800	1200		1	69	30-130	09/02/2016 1720
Acenaphthylene	ND	1800	1300		1	73	30-130	09/02/2016 1720
Acetophenone	ND	1800	1000		1	59	30-130	09/02/2016 1720
Anthracene	ND	1800	1400		1	77	30-130	09/02/2016 1720
Atrazine	ND	1800	1200		1	70	30-130	09/02/2016 1720
Benzaldehyde	ND	1800	980		1	55	40-117	09/02/2016 1720
Benzo(a)anthracene	ND	1800	1400		1	81	30-130	09/02/2016 1720
Benzo(a)pyrene	ND	1800	1500		1	83	30-130	09/02/2016 1720
Benzo(b)fluoranthene	ND	1800	2000		1	110	30-130	09/02/2016 1720
Benzo(g,h,i)perylene	ND	1800	800		1	45	30-130	09/02/2016 1720
Benzo(k)fluoranthene	ND	1800	2000		1	112	30-130	09/02/2016 1720
1,1'-Biphenyl	ND	1800	1200		1	68	30-130	09/02/2016 1720
4-Bromophenyl phenyl ether	ND	1800	1300		1	73	30-130	09/02/2016 1720
Butyl benzyl phthalate	ND	1800	2000		1	112	30-130	09/02/2016 1720
Caprolactam	ND	1800	960		1	54	30-130	09/02/2016 1720
Carbazole	ND	1800	1500		1	82	30-130	09/02/2016 1720
4-Chloro-3-methyl phenol	ND	1800	1300		1	72	30-130	09/02/2016 1720
4-Chloroaniline	ND	1800	480		1	27	10-130	09/02/2016 1720
bis(2-Chloroethoxy)methane	ND	1800	1000		1	59	30-130	09/02/2016 1720
bis(2-Chloroethyl)ether	ND	1800	930		1	52	30-130	09/02/2016 1720
bis (2-Chloro-1-methylethyl) ether	ND	1800	980		1	56	30-130	09/02/2016 1720
2-Chloronaphthalene	ND	1800	1200		1	66	30-130	09/02/2016 1720
2-Chlorophenol	ND	1800	1100		1	64	30-130	09/02/2016 1720
4-Chlorophenyl phenyl ether	ND	1800	1100		1	65	30-130	09/02/2016 1720
Chrysene	ND	1800	1400		1	77	30-130	09/02/2016 1720
Di-n-butyl phthalate	ND	1800	1500		1	84	30-130	09/02/2016 1720
Di-n-octylphthalate	ND	1800	2500	N	1	142	30-130	09/02/2016 1720
Dibenzo(a,h)anthracene	ND	1800	1100		1	62	30-130	09/02/2016 1720
Dibenzofuran	ND	1800	1300		1	74	30-130	09/02/2016 1720
3,3'-Dichlorobenzidine	ND	1800	380	N	1	21	30-130	09/02/2016 1720
2,4-Dichlorophenol	ND	3500	2400		1	68	30-130	09/02/2016 1720
Diethylphthalate	ND	1800	1300		1	76	30-130	09/02/2016 1720
Dimethyl phthalate	ND	1800	1300		1	74	30-130	09/02/2016 1720
2,4-Dimethylphenol	ND	1800	1100		1	63	30-130	09/02/2016 1720
4,6-Dinitro-2-methylphenol	ND	1800	490	N	1	27	30-130	09/02/2016 1720
2,4-Dinitrophenol	ND	1800	720		1	41	30-130	09/02/2016 1720
2,4-Dinitrotoluene	ND	1800	1200		1	69	30-130	09/02/2016 1720
2,6-Dinitrotoluene	ND	1800	1200		1	68	30-130	09/02/2016 1720
bis(2-Ethylhexyl)phthalate	ND	1800	1500		1	82	30-130	09/02/2016 1720
Fluoranthene	ND	1800	1800		1	99	30-130	09/02/2016 1720
Fluorene	ND	1800	1300		1	73	30-130	09/02/2016 1720
Hexachlorobenzene	ND	1800	1400		1	78	30-130	09/02/2016 1720
Hexachlorobutadiene	ND	1800	1000		1	56	30-130	09/02/2016 1720
Hexachlorocyclopentadiene	ND	8900	890	N	1	10	30-130	09/02/2016 1720

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MS

Sample ID: RH26003-018MS
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Hexachloroethane	ND	1800	530		1	30	30-130	09/02/2016 1720
Indeno(1,2,3-c,d)pyrene	ND	1800	920		1	52	30-130	09/02/2016 1720
Isophorone	ND	1800	1100		1	61	30-130	09/02/2016 1720
2-Methylnaphthalene	ND	1800	1200		1	67	30-130	09/02/2016 1720
2-Methylphenol	ND	1800	1200		1	66	30-130	09/02/2016 1720
3+4-Methylphenol	ND	1800	1100		1	60	30-130	09/02/2016 1720
N-Nitrosodi-n-propylamine	ND	1800	1100		1	63	30-130	09/02/2016 1720
N-Nitrosodiphenylamine (Diphenylamine)	ND	1800	1400		1	81	30-130	09/02/2016 1720
Naphthalene	ND	1800	1200		1	65	30-130	09/02/2016 1720
2-Nitroaniline	ND	1800	1200		1	70	30-130	09/02/2016 1720
3-Nitroaniline	ND	1800	610		1	34	30-130	09/02/2016 1720
4-Nitroaniline	ND	1800	1100		1	63	30-130	09/02/2016 1720
Nitrobenzene	ND	1800	1000		1	59	30-130	09/02/2016 1720
2-Nitrophenol	ND	1800	1100		1	62	30-130	09/02/2016 1720
4-Nitrophenol	ND	3500	2700		1	75	30-130	09/02/2016 1720
Pentachlorophenol	ND	3500	2700		1	75	30-130	09/02/2016 1720
Phenanthrene	ND	1800	1400		1	76	30-130	09/02/2016 1720
Phenol	ND	1800	1100		1	64	30-130	09/02/2016 1720
Pyrene	ND	1800	1600		1	89	30-130	09/02/2016 1720
2,4,5-Trichlorophenol	ND	1800	1300		1	76	30-130	09/02/2016 1720
2,4,6-Trichlorophenol	ND	1800	1300		1	76	30-130	09/02/2016 1720

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		79	30-117
2-Fluorobiphenyl		66	33-102
2-Fluorophenol		59	28-104
Nitrobenzene-d5		63	22-109
Phenol-d5		66	27-103
Terphenyl-d14		88	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: RH26003-018MD
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acenaphthene	ND	1800	1200		1	70	1.1	30-130	40	09/02/2016 1745
Acenaphthylene	ND	1800	1300		1	72	0.80	30-130	40	09/02/2016 1745
Acetophenone	ND	1800	1100		1	63	7.2	30-130	40	09/02/2016 1745
Anthracene	ND	1800	1300		1	74	4.0	30-130	40	09/02/2016 1745
Atrazine	ND	1800	1100		1	64	8.5	30-130	40	09/02/2016 1745
Benzaldehyde	ND	1800	1100		1	61	9.5	40-117	40	09/02/2016 1745
Benzo(a)anthracene	ND	1800	1400		1	79	2.6	30-130	40	09/02/2016 1745
Benzo(a)pyrene	ND	1800	1500		1	83	0.30	30-130	40	09/02/2016 1745
Benzo(b)fluoranthene	ND	1800	2000		1	111	0.59	30-130	40	09/02/2016 1745
Benzo(g,h,i)perylene	ND	1800	660		1	37	20	30-130	40	09/02/2016 1745
Benzo(k)fluoranthene	ND	1800	1900		1	105	5.7	30-130	40	09/02/2016 1745
1,1'-Biphenyl	ND	1800	1200		1	69	1.2	30-130	40	09/02/2016 1745
4-Bromophenyl phenyl ether	ND	1800	1200		1	68	7.7	30-130	40	09/02/2016 1745
Butyl benzyl phthalate	ND	1800	2100		1	116	3.7	30-130	40	09/02/2016 1745
Caprolactam	ND	1800	1400		1	79	37	30-130	40	09/02/2016 1745
Carbazole	ND	1800	1400		1	78	5.1	30-130	40	09/02/2016 1745
4-Chloro-3-methyl phenol	ND	1800	1200		1	69	4.6	30-130	40	09/02/2016 1745
4-Chloroaniline	ND	1800	470		1	27	2.2	10-130	40	09/02/2016 1745
bis(2-Chloroethoxy)methane	ND	1800	1100		1	61	3.7	30-130	40	09/02/2016 1745
bis(2-Chloroethyl)ether	ND	1800	1000		1	56	7.7	30-130	40	09/02/2016 1745
bis (2-Chloro-1-methylethyl) ether	ND	1800	1100		1	61	8.5	30-130	40	09/02/2016 1745
2-Chloronaphthalene	ND	1800	1200		1	67	1.6	30-130	40	09/02/2016 1745
2-Chlorophenol	ND	1800	1200		1	69	6.2	30-130	40	09/02/2016 1745
4-Chlorophenyl phenyl ether	ND	1800	1000		1	59	9.3	30-130	40	09/02/2016 1745
Chrysene	ND	1800	1400		1	76	1.3	30-130	40	09/02/2016 1745
Di-n-butyl phthalate	ND	1800	1400		1	80	4.4	30-130	40	09/02/2016 1745
Di-n-octylphthalate	ND	1800	2700	N	1	153	7.5	30-130	40	09/02/2016 1745
Dibenzo(a,h)anthracene	ND	1800	710	+	1	40	44	30-130	40	09/02/2016 1745
Dibenzofuran	ND	1800	1300		1	73	2.3	30-130	40	09/02/2016 1745
3,3'-Dichlorobenzidine	ND	1800	330	N	1	18	14	30-130	40	09/02/2016 1745
2,4-Dichlorophenol	ND	3500	2500		1	70	3.8	30-130	40	09/02/2016 1745
Diethylphthalate	ND	1800	1300		1	73	2.8	30-130	40	09/02/2016 1745
Dimethyl phthalate	ND	1800	1300		1	73	0.97	30-130	40	09/02/2016 1745
2,4-Dimethylphenol	ND	1800	1200		1	67	5.3	30-130	40	09/02/2016 1745
4,6-Dinitro-2-methylphenol	ND	1800	480	N	1	27	1.6	30-130	40	09/02/2016 1745
2,4-Dinitrophenol	ND	1800	730		1	41	1.1	30-130	40	09/02/2016 1745
2,4-Dinitrotoluene	ND	1800	1200		1	67	2.9	30-130	40	09/02/2016 1745
2,6-Dinitrotoluene	ND	1800	1200		1	68	0.071	30-130	40	09/02/2016 1745
bis(2-Ethylhexyl)phthalate	ND	1800	1400		1	81	1.4	30-130	40	09/02/2016 1745
Fluoranthene	ND	1800	1800		1	99	0.41	30-130	40	09/02/2016 1745
Fluorene	ND	1800	1200		1	69	6.7	30-130	40	09/02/2016 1745
Hexachlorobenzene	ND	1800	1200		1	70	11	30-130	40	09/02/2016 1745
Hexachlorobutadiene	ND	1800	1100		1	60	6.6	30-130	40	09/02/2016 1745
Hexachlorocyclopentadiene	ND	8900	870	N	1	9.8	2.6	30-130	40	09/02/2016 1745

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MSD

Sample ID: RH26003-018MD
Batch: 20899
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/29/2016 2356

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Hexachloroethane	ND	1800	580		1	33	9.9	30-130	40	09/02/2016 1745
Indeno(1,2,3-c,d)pyrene	ND	1800	740		1	42	22	30-130	40	09/02/2016 1745
Isophorone	ND	1800	1100		1	65	6.6	30-130	40	09/02/2016 1745
2-Methylnaphthalene	ND	1800	1200		1	69	3.7	30-130	40	09/02/2016 1745
2-Methylphenol	ND	1800	1200		1	68	2.9	30-130	40	09/02/2016 1745
3+4-Methylphenol	ND	1800	1200		1	65	7.8	30-130	40	09/02/2016 1745
N-Nitrosodi-n-propylamine	ND	1800	1200		1	69	9.4	30-130	40	09/02/2016 1745
N-Nitrosodiphenylamine (Diphenylamine)	ND	1800	1300		1	73	11	30-130	40	09/02/2016 1745
Naphthalene	ND	1800	1200		1	68	4.2	30-130	40	09/02/2016 1745
2-Nitroaniline	ND	1800	1200		1	69	1.0	30-130	40	09/02/2016 1745
3-Nitroaniline	ND	1800	610		1	34	0.050	30-130	40	09/02/2016 1745
4-Nitroaniline	ND	1800	970		1	55	14	30-130	40	09/02/2016 1745
Nitrobenzene	ND	1800	1100		1	60	2.8	30-130	40	09/02/2016 1745
2-Nitrophenol	ND	1800	1200		1	66	6.3	30-130	40	09/02/2016 1745
4-Nitrophenol	ND	3500	2600		1	73	3.8	30-130	40	09/02/2016 1745
Pentachlorophenol	ND	3500	2500		1	69	8.2	30-130	40	09/02/2016 1745
Phenanthrene	ND	1800	1400		1	77	0.16	30-130	40	09/02/2016 1745
Phenol	ND	1800	1200		1	67	4.2	30-130	40	09/02/2016 1745
Pyrene	ND	1800	1700		1	95	7.1	30-130	40	09/02/2016 1745
2,4,5-Trichlorophenol	ND	1800	1300		1	75	1.7	30-130	40	09/02/2016 1745
2,4,6-Trichlorophenol	ND	1800	1400		1	78	1.9	30-130	40	09/02/2016 1745

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		76	30-117
2-Fluorobiphenyl		68	33-102
2-Fluorophenol		64	28-104
Nitrobenzene-d5		65	22-109
Phenol-d5		68	27-103
Terphenyl-d14		93	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ21109-001
Batch: 21109
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/31/2016 2310

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1'-Biphenyl	ND		1	330	ug/kg	09/02/2016 1227
2,4,5-Trichlorophenol	ND		1	330	ug/kg	09/02/2016 1227
2,4,6-Trichlorophenol	ND		1	330	ug/kg	09/02/2016 1227
2,4-Dichlorophenol	ND		1	330	ug/kg	09/02/2016 1227
2,4-Dimethylphenol	ND		1	330	ug/kg	09/02/2016 1227
2,4-Dinitrophenol	ND		1	830	ug/kg	09/02/2016 1227
2,4-Dinitrotoluene	ND		1	330	ug/kg	09/02/2016 1227
2,6-Dinitrotoluene	ND		1	330	ug/kg	09/02/2016 1227
2-Chloronaphthalene	ND		1	330	ug/kg	09/02/2016 1227
2-Chlorophenol	ND		1	330	ug/kg	09/02/2016 1227
2-Methylnaphthalene	ND		1	330	ug/kg	09/02/2016 1227
2-Methylphenol	ND		1	330	ug/kg	09/02/2016 1227
2-Nitroaniline	ND		1	330	ug/kg	09/02/2016 1227
2-Nitrophenol	ND		1	330	ug/kg	09/02/2016 1227
3+4-Methylphenol	ND		1	670	ug/kg	09/02/2016 1227
3,3'-Dichlorobenzidine	ND		1	830	ug/kg	09/02/2016 1227
3-Nitroaniline	ND		1	330	ug/kg	09/02/2016 1227
4,6-Dinitro-2-methylphenol	ND		1	830	ug/kg	09/02/2016 1227
4-Bromophenyl phenyl ether	ND		1	330	ug/kg	09/02/2016 1227
4-Chloro-3-methyl phenol	ND		1	330	ug/kg	09/02/2016 1227
4-Chloroaniline	ND		1	330	ug/kg	09/02/2016 1227
4-Chlorophenyl phenyl ether	ND		1	330	ug/kg	09/02/2016 1227
4-Nitroaniline	ND		1	330	ug/kg	09/02/2016 1227
4-Nitrophenol	ND		1	830	ug/kg	09/02/2016 1227
Acenaphthene	ND		1	330	ug/kg	09/02/2016 1227
Acenaphthylene	ND		1	330	ug/kg	09/02/2016 1227
Acetophenone	ND		1	330	ug/kg	09/02/2016 1227
Anthracene	ND		1	330	ug/kg	09/02/2016 1227
Atrazine	ND		1	330	ug/kg	09/02/2016 1227
Benzaldehyde	ND		1	830	ug/kg	09/02/2016 1227
Benzo(a)anthracene	ND		1	330	ug/kg	09/02/2016 1227
Benzo(a)pyrene	ND		1	330	ug/kg	09/02/2016 1227
Benzo(b)fluoranthene	ND		1	330	ug/kg	09/02/2016 1227
Benzo(g,h,i)perylene	ND		1	330	ug/kg	09/02/2016 1227
Benzo(k)fluoranthene	ND		1	330	ug/kg	09/02/2016 1227
bis (2-Chloro-1-methylethyl) ether	ND		1	330	ug/kg	09/02/2016 1227
bis(2-Chloroethoxy)methane	ND		1	330	ug/kg	09/02/2016 1227
bis(2-Chloroethyl)ether	ND		1	330	ug/kg	09/02/2016 1227
bis(2-Ethylhexyl)phthalate	ND		1	330	ug/kg	09/02/2016 1227
Butyl benzyl phthalate	ND		1	330	ug/kg	09/02/2016 1227
Caprolactam	ND		1	830	ug/kg	09/02/2016 1227
Carbazole	ND		1	330	ug/kg	09/02/2016 1227
Chrysene	ND		1	330	ug/kg	09/02/2016 1227
Di-n-butyl phthalate	ND		1	330	ug/kg	09/02/2016 1227

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - MB

Sample ID: RQ21109-001
Batch: 21109
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/31/2016 2310

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Di-n-octylphthalate	ND		1	330	ug/kg	09/02/2016 1227
Dibenzo(a,h)anthracene	ND		1	330	ug/kg	09/02/2016 1227
Dibenzofuran	ND		1	330	ug/kg	09/02/2016 1227
Diethylphthalate	ND		1	330	ug/kg	09/02/2016 1227
Dimethyl phthalate	ND		1	330	ug/kg	09/02/2016 1227
Fluoranthene	ND		1	330	ug/kg	09/02/2016 1227
Fluorene	ND		1	330	ug/kg	09/02/2016 1227
Hexachlorobenzene	ND		1	330	ug/kg	09/02/2016 1227
Hexachlorobutadiene	ND		1	330	ug/kg	09/02/2016 1227
Hexachlorocyclopentadiene	ND		1	830	ug/kg	09/02/2016 1227
Hexachloroethane	ND		1	330	ug/kg	09/02/2016 1227
Indeno(1,2,3-c,d)pyrene	ND		1	330	ug/kg	09/02/2016 1227
Isophorone	ND		1	330	ug/kg	09/02/2016 1227
N-Nitrosodi-n-propylamine	ND		1	330	ug/kg	09/02/2016 1227
N-Nitrosodiphenylamine (Diphenylamine)	ND		1	330	ug/kg	09/02/2016 1227
Naphthalene	ND		1	330	ug/kg	09/02/2016 1227
Nitrobenzene	ND		1	330	ug/kg	09/02/2016 1227
Pentachlorophenol	ND		1	830	ug/kg	09/02/2016 1227
Phenanthrene	ND		1	330	ug/kg	09/02/2016 1227
Phenol	ND		1	330	ug/kg	09/02/2016 1227
Pyrene	ND		1	330	ug/kg	09/02/2016 1227

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		53	30-117
2-Fluorobiphenyl		64	33-102
2-Fluorophenol		65	28-104
Nitrobenzene-d5		64	22-109
Phenol-d5		68	27-103
Terphenyl-d14		73	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ21109-002
Batch: 21109
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/31/2016 2310

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1'-Biphenyl	1700	1100		1	68	49-110	09/02/2016 1252
2,4,5-Trichlorophenol	1700	1200		1	71	46-122	09/02/2016 1252
2,4,6-Trichlorophenol	1700	1200		1	73	38-115	09/02/2016 1252
2,4-Dichlorophenol	3300	2400		1	72	41-113	09/02/2016 1252
2,4-Dimethylphenol	1700	1200		1	71	33-123	09/02/2016 1252
2,4-Dinitrophenol	1700	1000		1	62	45-127	09/02/2016 1252
2,4-Dinitrotoluene	1700	1300		1	77	48-124	09/02/2016 1252
2,6-Dinitrotoluene	1700	1200		1	73	47-125	09/02/2016 1252
2-Chloronaphthalene	1700	1100		1	67	31-127	09/02/2016 1252
2-Chlorophenol	1700	1200		1	70	37-106	09/02/2016 1252
2-Methylnaphthalene	1700	1100		1	68	40-106	09/02/2016 1252
2-Methylphenol	1700	1200		1	71	32-107	09/02/2016 1252
2-Nitroaniline	1700	1100		1	67	45-123	09/02/2016 1252
2-Nitrophenol	1700	1100		1	66	35-108	09/02/2016 1252
3+4-Methylphenol	1700	1200		1	70	39-108	09/02/2016 1252
3,3'-Dichlorobenzidine	1700	1100		1	68	46-113	09/02/2016 1252
3-Nitroaniline	1700	1100		1	66	24-127	09/02/2016 1252
4,6-Dinitro-2-methylphenol	1700	1200		1	72	40-130	09/02/2016 1252
4-Bromophenyl phenyl ether	1700	1200		1	72	46-118	09/02/2016 1252
4-Chloro-3-methyl phenol	1700	1200		1	71	49-118	09/02/2016 1252
4-Chloroaniline	1700	1100		1	64	10-125	09/02/2016 1252
4-Chlorophenyl phenyl ether	1700	1100		1	65	47-116	09/02/2016 1252
4-Nitroaniline	1700	1300		1	77	48-127	09/02/2016 1252
4-Nitrophenol	3300	2500		1	75	18-154	09/02/2016 1252
Acenaphthene	1700	1200		1	69	46-114	09/02/2016 1252
Acenaphthylene	1700	1200		1	72	44-122	09/02/2016 1252
Acetophenone	1700	1100		1	64	48-111	09/02/2016 1252
Anthracene	1700	1300		1	78	50-119	09/02/2016 1252
Atrazine	1700	1100		1	68	48-116	09/02/2016 1252
Benzaldehyde	1700	1000		1	62	40-117	09/02/2016 1252
Benzo(a)anthracene	1700	1300		1	81	47-121	09/02/2016 1252
Benzo(a)pyrene	1700	1300		1	79	55-134	09/02/2016 1252
Benzo(b)fluoranthene	1700	1500		1	89	28-139	09/02/2016 1252
Benzo(g,h,i)perylene	1700	1400		1	85	36-125	09/02/2016 1252
Benzo(k)fluoranthene	1700	1500		1	89	47-130	09/02/2016 1252
bis (2-Chloro-1-methylethyl) ether	1700	1000		1	62	31-102	09/02/2016 1252
bis(2-Chloroethoxy)methane	1700	1100		1	64	39-108	09/02/2016 1252
bis(2-Chloroethyl)ether	1700	1000		1	60	32-105	09/02/2016 1252
bis(2-Ethylhexyl)phthalate	1700	1300		1	77	45-128	09/02/2016 1252
Butyl benzyl phthalate	1700	1400		1	83	46-128	09/02/2016 1252
Caprolactam	1700	1300		1	76	43-121	09/02/2016 1252
Carbazole	1700	1400		1	82	47-128	09/02/2016 1252
Chrysene	1700	1300		1	79	45-126	09/02/2016 1252
Di-n-butyl phthalate	1700	1400		1	84	51-129	09/02/2016 1252

PQL = Practical quantitation limit
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
ND = Not detected at or above the PQL
J = Estimated result < PQL and ≥ MDL
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Semivolatile Organic Compounds by GC/MS - LCS

Sample ID: RQ21109-002
Batch: 21109
Analytical Method: 8270D

Matrix: Solid
Prep Method: 3550C
Prep Date: 08/31/2016 2310

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Di-n-octylphthalate	1700	1300		1	79	49-142	09/02/2016 1252
Dibenzo(a,h)anthracene	1700	820		1	49	45-122	09/02/2016 1252
Dibenzofuran	1700	1200		1	72	45-112	09/02/2016 1252
Diethylphthalate	1700	1300		1	80	49-123	09/02/2016 1252
Dimethyl phthalate	1700	1300		1	77	48-120	09/02/2016 1252
Fluoranthene	1700	1300		1	79	50-123	09/02/2016 1252
Fluorene	1700	1200		1	73	48-117	09/02/2016 1252
Hexachlorobenzene	1700	1300		1	79	44-122	09/02/2016 1252
Hexachlorobutadiene	1700	1000		1	61	33-103	09/02/2016 1252
Hexachlorocyclopentadiene	8300	3000		1	36	18-121	09/02/2016 1252
Hexachloroethane	1700	950		1	57	30-96	09/02/2016 1252
Indeno(1,2,3-c,d)pyrene	1700	1300		1	79	45-123	09/02/2016 1252
Isophorone	1700	1100		1	65	41-113	09/02/2016 1252
N-Nitrosodi-n-propylamine	1700	1200		1	72	32-115	09/02/2016 1252
N-Nitrosodiphenylamine (Diphenylamine)	1700	1300		1	78	53-150	09/02/2016 1252
Naphthalene	1700	1200		1	70	36-110	09/02/2016 1252
Nitrobenzene	1700	1100		1	64	33-114	09/02/2016 1252
Pentachlorophenol	3300	2000		1	60	27-138	09/02/2016 1252
Phenanthrene	1700	1300		1	79	49-117	09/02/2016 1252
Phenol	1700	1200		1	73	36-108	09/02/2016 1252
Pyrene	1700	1300		1	80	47-119	09/02/2016 1252

Surrogate	Q	% Rec	Acceptance Limit
2,4,6-Tribromophenol		71	30-117
2-Fluorobiphenyl		63	33-102
2-Fluorophenol		63	28-104
Nitrobenzene-d5		64	22-109
Phenol-d5		69	27-103
Terphenyl-d14		73	41-120

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21021-001
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1221	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1232	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1242	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1248	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1254	ND		1	10	ug/kg	08/31/2016 1646
Aroclor 1260	ND		1	10	ug/kg	08/31/2016 1646

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		58	41-132
Tetrachloro-m-xylene		56	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21021-002
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	110		1	107	70-130	08/31/2016 1659
Aroclor 1260	100	110		1	108	70-130	08/31/2016 1659

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		92	41-132
Tetrachloro-m-xylene		90	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MS

Sample ID: RH26003-001MS
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147

Cleanup: 3660B/3665A

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	ND	120	23000	N	500	19200	70-130	09/01/2016 0044
Aroclor 1260	ND	120	4500	N	500	3800	70-130	09/01/2016 0044

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		112	41-132
Tetrachloro-m-xylene		92	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MSD

Sample ID: RH26003-001MD
Batch: 21021
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/30/2016 2147

Cleanup: 3660B/3665A

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aroclor 1016	ND	120	20000	N	500	17300	13	70-130	20	09/01/2016 0057
Aroclor 1260	ND	120	4000	N	500	3410	13	70-130	20	09/01/2016 0057

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		102	41-132
Tetrachloro-m-xylene		87	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: RQ21110-001
Batch: 21110
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.0	ug/kg	09/02/2016 1036
4,4'-DDE	ND		1	1.0	ug/kg	09/02/2016 1036
4,4'-DDT	ND		1	1.0	ug/kg	09/02/2016 1036
Aldrin	ND		1	1.0	ug/kg	09/02/2016 1036
alpha-BHC	ND		1	1.0	ug/kg	09/02/2016 1036
beta-BHC	ND		1	1.0	ug/kg	09/02/2016 1036
Chlordane	ND		1	2.0	ug/kg	09/02/2016 1036
cis-Chlordane	ND		1	1.0	ug/kg	09/02/2016 1036
delta-BHC	ND		1	1.0	ug/kg	09/02/2016 1036
Dieldrin	ND		1	1.0	ug/kg	09/02/2016 1036
Endosulfan I	ND		1	1.0	ug/kg	09/02/2016 1036
Endosulfan II	ND		1	1.0	ug/kg	09/02/2016 1036
Endosulfan sulfate	ND		1	1.0	ug/kg	09/02/2016 1036
Endrin	ND		1	1.0	ug/kg	09/02/2016 1036
Endrin aldehyde	ND		1	1.0	ug/kg	09/02/2016 1036
Endrin ketone	ND		1	1.0	ug/kg	09/02/2016 1036
gamma-BHC (Lindane)	ND		1	1.0	ug/kg	09/02/2016 1036
Heptachlor	ND		1	1.0	ug/kg	09/02/2016 1036
Heptachlor epoxide	ND		1	1.0	ug/kg	09/02/2016 1036
Methoxychlor	ND		1	4.0	ug/kg	09/02/2016 1036
Toxaphene	ND		1	10	ug/kg	09/02/2016 1036
trans-Chlordane	ND		1	1.0	ug/kg	09/02/2016 1036

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		92	57-110
Tetrachloro-m-xylene		70	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: RQ21110-002
Batch: 21110
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	20	18		1	89	70-130	09/02/2016 1051
4,4'-DDE	20	16		1	82	70-130	09/02/2016 1051
4,4'-DDT	20	18		1	88	70-130	09/02/2016 1051
Aldrin	20	16		1	82	70-130	09/02/2016 1051
alpha-BHC	20	15		1	77	70-130	09/02/2016 1051
beta-BHC	20	15		1	77	70-130	09/02/2016 1051
cis-Chlordane	20	17		1	83	70-130	09/02/2016 1051
delta-BHC	20	16		1	79	50-150	09/02/2016 1051
Dieldrin	20	17		1	86	70-130	09/02/2016 1051
Endosulfan I	20	15		1	76	70-130	09/02/2016 1051
Endosulfan II	20	17		1	84	70-130	09/02/2016 1051
Endosulfan sulfate	20	19		1	94	70-130	09/02/2016 1051
Endrin	20	17		1	84	70-130	09/02/2016 1051
Endrin aldehyde	20	20		1	100	70-130	09/02/2016 1051
Endrin ketone	20	18		1	92	70-130	09/02/2016 1051
gamma-BHC (Lindane)	20	16		1	81	70-130	09/02/2016 1051
Heptachlor	20	16		1	78	70-130	09/02/2016 1051
Heptachlor epoxide	20	16		1	80	70-130	09/02/2016 1051
Methoxychlor	20	19		1	93	70-130	09/02/2016 1051
trans-Chlordane	20	18		1	88	70-130	09/02/2016 1051

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		88	57-110
Tetrachloro-m-xylene		66	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: RH26003-018MS
Batch: 21110
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	21	ND	N	1000	0.00	70-130	09/02/2016 1128
gamma-BHC (Lindane)	ND	21	ND	N	1000	0.00	70-130	09/02/2016 1128
alpha-BHC	ND	21	ND	N	1000	0.00	70-130	09/02/2016 1128
beta-BHC	ND	21	ND	N	1000	0.00	70-130	09/02/2016 1128
delta-BHC	ND	21	120	N	1000	-616	50-150	09/02/2016 1128
cis-Chlordane	ND	21	ND	N	1000	0.00	70-130	09/02/2016 1128
trans-Chlordane	14000	21	4800	N	1000	-44200	70-130	09/02/2016 1128
4,4'-DDD	ND	21	ND	N	1000	-1800	70-130	09/02/2016 1128
4,4'-DDE	9300	21	3200	N	1000	-29400	70-130	09/02/2016 1128
4,4'-DDT	15000	21	5400	N	1000	-46600	70-130	09/02/2016 1128
Dieldrin	28000	21	9900	N	1000	-88100	70-130	09/02/2016 1128
Endosulfan I	2500	21	ND	N	1000	-12100	70-130	09/02/2016 1128
Endosulfan II	4400	21	230	N	1000	-20200	70-130	09/02/2016 1128
Endosulfan sulfate	ND	21	280	N	1000	539	70-130	09/02/2016 1128
Endrin	3100	21	1100	N	1000	-9730	70-130	09/02/2016 1128
Endrin aldehyde	2800	21	920	N	1000	-9270	70-130	09/02/2016 1128
Endrin ketone	ND	21	970	N	1000	4710	70-130	09/02/2016 1128
Heptachlor	ND	21	ND	N	1000	-1340	70-130	09/02/2016 1128
Heptachlor epoxide	1200	21	390	N	1000	-3830	70-130	09/02/2016 1128
Methoxychlor	ND	21	ND	N	1000	0.00	70-130	09/02/2016 1128

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: RH26003-018MD
Batch: 21110
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	21	ND	N	1000	0.00	0.00	70-130	20	09/02/2016 1143
gamma-BHC (Lindane)	ND	21	ND	N	1000	0.00	0.00	70-130	20	09/02/2016 1143
alpha-BHC	ND	21	ND	N	1000	0.00	0.00	70-130	20	09/02/2016 1143
beta-BHC	ND	21	ND	N	1000	0.00	0.00	70-130	20	09/02/2016 1143
delta-BHC	ND	21	180	N,+	1000	-337	37	50-150	20	09/02/2016 1143
cis-Chlordane	ND	21	ND	N	1000	0.00	0.00	70-130	20	09/02/2016 1143
trans-Chlordane	14000	21	6700	N,+	1000	-34100	34	70-130	20	09/02/2016 1143
4,4'-DDD	ND	21	ND	N	1000	-1760	0.00	70-130	20	09/02/2016 1143
4,4'-DDE	9300	21	4600	N,+	1000	-22300	36	70-130	20	09/02/2016 1143
4,4'-DDT	15000	21	7500	N,+	1000	-35800	32	70-130	20	09/02/2016 1143
Dieldrin	28000	21	14000	N,+	1000	-69200	31	70-130	20	09/02/2016 1143
Endosulfan I	2500	21	ND	N	1000	-11800	0.00	70-130	20	09/02/2016 1143
Endosulfan II	4400	21	400	N,+	1000	-19000	53	70-130	20	09/02/2016 1143
Endosulfan sulfate	ND	21	710	N,+	1000	2560	87	70-130	20	09/02/2016 1143
Endrin	3100	21	1600	N,+	1000	-7210	37	70-130	20	09/02/2016 1143
Endrin aldehyde	2800	21	1600	N,+	1000	-6070	52	70-130	20	09/02/2016 1143
Endrin ketone	ND	21	1300	N,+	1000	5950	25	70-130	20	09/02/2016 1143
Heptachlor	ND	21	140	N,+	1000	-633	200	70-130	20	09/02/2016 1143
Heptachlor epoxide	1200	21	610	N,+	1000	-2730	43	70-130	20	09/02/2016 1143
Methoxychlor	ND	21	ND	N	1000	0.00	0.00	70-130	20	09/02/2016 1143

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl	N	0.00	57-110
Tetrachloro-m-xylene	N	0.00	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21111-001
Batch: 21111
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	09/01/2016 1920
Aroclor 1221	ND		1	10	ug/kg	09/01/2016 1920
Aroclor 1232	ND		1	10	ug/kg	09/01/2016 1920
Aroclor 1242	ND		1	10	ug/kg	09/01/2016 1920
Aroclor 1248	ND		1	10	ug/kg	09/01/2016 1920
Aroclor 1254	ND		1	10	ug/kg	09/01/2016 1920
Aroclor 1260	ND		1	10	ug/kg	09/01/2016 1920

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		91	41-132
Tetrachloro-m-xylene		76	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21111-002
Batch: 21111
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	88		1	88	70-130	09/01/2016 1934
Aroclor 1260	100	92		1	92	70-130	09/01/2016 1934

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		80	41-132
Tetrachloro-m-xylene		70	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MS

Sample ID: RH26003-021MS
Batch: 21111
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Cleanup: 3660B/3665A

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	ND	97	64	N	1	66	70-130	09/02/2016 1648
Aroclor 1260	ND	97	64	N	1	66	70-130	09/02/2016 1648

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		55	41-132
Tetrachloro-m-xylene		55	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MSD

Sample ID: RH26003-021MD
Batch: 21111
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 08/31/2016 2206

Cleanup: 3660B/3665A

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aroclor 1016	ND	97	100	+	1	103	44	70-130	20	09/02/2016 1701
Aroclor 1260	ND	97	95	+	1	97	38	70-130	20	09/02/2016 1701

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		84	41-132
Tetrachloro-m-xylene		87	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21164-001
Batch: 21164
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/01/2016 1342

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	09/02/2016 1024
Aroclor 1221	ND		1	10	ug/kg	09/02/2016 1024
Aroclor 1232	ND		1	10	ug/kg	09/02/2016 1024
Aroclor 1242	ND		1	10	ug/kg	09/02/2016 1024
Aroclor 1248	ND		1	10	ug/kg	09/02/2016 1024
Aroclor 1254	ND		1	10	ug/kg	09/02/2016 1024
Aroclor 1260	ND		1	10	ug/kg	09/02/2016 1024

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		93	41-132
Tetrachloro-m-xylene		86	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21164-002
Batch: 21164
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/01/2016 1342

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	120		1	115	70-130	09/02/2016 1037
Aroclor 1260	100	110		1	112	70-130	09/02/2016 1037

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		97	41-132
Tetrachloro-m-xylene		92	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MB

Sample ID: RQ21166-001
Batch: 21166
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 09/01/2016 1342

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
4,4'-DDD	ND		1	1.0	ug/kg	09/02/2016 1410
4,4'-DDE	ND		1	1.0	ug/kg	09/02/2016 1410
4,4'-DDT	ND		1	1.0	ug/kg	09/02/2016 1410
Aldrin	ND		1	1.0	ug/kg	09/02/2016 1410
alpha-BHC	ND		1	1.0	ug/kg	09/02/2016 1410
beta-BHC	ND		1	1.0	ug/kg	09/02/2016 1410
Chlordane	ND		1	2.0	ug/kg	09/02/2016 1410
cis-Chlordane	ND		1	1.0	ug/kg	09/02/2016 1410
delta-BHC	ND		1	1.0	ug/kg	09/02/2016 1410
Dieldrin	ND		1	1.0	ug/kg	09/02/2016 1410
Endosulfan I	ND		1	1.0	ug/kg	09/02/2016 1410
Endosulfan II	ND		1	1.0	ug/kg	09/02/2016 1410
Endosulfan sulfate	ND		1	1.0	ug/kg	09/02/2016 1410
Endrin	ND		1	1.0	ug/kg	09/02/2016 1410
Endrin aldehyde	ND		1	1.0	ug/kg	09/02/2016 1410
Endrin ketone	ND		1	1.0	ug/kg	09/02/2016 1410
gamma-BHC (Lindane)	ND		1	1.0	ug/kg	09/02/2016 1410
Heptachlor	ND		1	1.0	ug/kg	09/02/2016 1410
Heptachlor epoxide	ND		1	1.0	ug/kg	09/02/2016 1410
Methoxychlor	ND		1	4.0	ug/kg	09/02/2016 1410
Toxaphene	ND		1	10	ug/kg	09/02/2016 1410
trans-Chlordane	ND		1	1.0	ug/kg	09/02/2016 1410

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		95	57-110
Tetrachloro-m-xylene		84	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - LCS

Sample ID: RQ21166-002
Batch: 21166
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 09/01/2016 1342

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
4,4'-DDD	20	21		1	104	70-130	09/02/2016 1425
4,4'-DDE	20	21		1	103	70-130	09/02/2016 1425
4,4'-DDT	20	22		1	109	70-130	09/02/2016 1425
Aldrin	20	20		1	101	70-130	09/02/2016 1425
alpha-BHC	20	20		1	99	70-130	09/02/2016 1425
beta-BHC	20	20		1	101	70-130	09/02/2016 1425
cis-Chlordane	20	20		1	98	70-130	09/02/2016 1425
delta-BHC	20	19		1	96	50-150	09/02/2016 1425
Dieldrin	20	21		1	103	70-130	09/02/2016 1425
Endosulfan I	20	18		1	88	70-130	09/02/2016 1425
Endosulfan II	20	19		1	97	70-130	09/02/2016 1425
Endosulfan sulfate	20	21		1	104	70-130	09/02/2016 1425
Endrin	20	20		1	102	70-130	09/02/2016 1425
Endrin aldehyde	20	22		1	111	70-130	09/02/2016 1425
Endrin ketone	20	21		1	107	70-130	09/02/2016 1425
gamma-BHC (Lindane)	20	20		1	101	70-130	09/02/2016 1425
Heptachlor	20	21		1	105	70-130	09/02/2016 1425
Heptachlor epoxide	20	19		1	97	70-130	09/02/2016 1425
Methoxychlor	20	22		1	112	70-130	09/02/2016 1425
trans-Chlordane	20	20		1	98	70-130	09/02/2016 1425

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		98	57-110
Tetrachloro-m-xylene		85	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MS

Sample ID: RH26003-026MS
Batch: 21166
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 09/01/2016 1342

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aldrin	ND	25	22		1	89	70-130	09/06/2016 1723
gamma-BHC (Lindane)	ND	25	24		1	99	70-130	09/06/2016 1723
alpha-BHC	ND	25	22		1	89	70-130	09/06/2016 1723
beta-BHC	ND	25	20		1	80	70-130	09/06/2016 1723
delta-BHC	ND	25	22		1	90	50-150	09/06/2016 1723
cis-Chlordane	ND	25	21		1	87	70-130	09/06/2016 1723
trans-Chlordane	1.3	25	21	P	1	87	70-130	09/06/2016 1723
4,4'-DDD	ND	25	20		1	83	70-130	09/06/2016 1723
4,4'-DDE	6.0	25	27		1	86	70-130	09/06/2016 1723
4,4'-DDT	2.3	25	26		1	98	70-130	09/06/2016 1723
Dieldrin	1.7	25	23		1	89	70-130	09/06/2016 1723
Endosulfan I	ND	25	19		1	78	70-130	09/06/2016 1723
Endosulfan II	ND	25	21		1	85	70-130	09/06/2016 1723
Endosulfan sulfate	ND	25	21		1	87	70-130	09/06/2016 1723
Endrin	ND	25	21		1	86	70-130	09/06/2016 1723
Endrin aldehyde	ND	25	22		1	91	70-130	09/06/2016 1723
Endrin ketone	ND	25	21		1	87	70-130	09/06/2016 1723
Heptachlor	ND	25	26		1	105	70-130	09/06/2016 1723
Heptachlor epoxide	ND	25	21		1	85	70-130	09/06/2016 1723
Methoxychlor	ND	25	25		1	102	70-130	09/06/2016 1723

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		86	57-110
Tetrachloro-m-xylene		81	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Organochlorine Pesticides by GC - MSD

Sample ID: RH26003-026MD
Batch: 21166
Analytical Method: 8081B

Matrix: Solid
Prep Method: 3546
Prep Date: 09/01/2016 1342

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aldrin	ND	26	22		1	87	2.9	70-130	20	09/06/2016 1738
gamma-BHC (Lindane)	ND	26	25		1	98	3.8	70-130	20	09/06/2016 1738
alpha-BHC	ND	26	23		1	89	4.1	70-130	20	09/06/2016 1738
beta-BHC	ND	26	20		1	79	3.9	70-130	20	09/06/2016 1738
delta-BHC	ND	26	23		1	90	4.0	50-150	20	09/06/2016 1738
cis-Chlordane	ND	26	22		1	86	3.8	70-130	20	09/06/2016 1738
trans-Chlordane	1.3	26	32	+	1	122	38	70-130	20	09/06/2016 1738
4,4'-DDD	ND	26	21		1	82	3.9	70-130	20	09/06/2016 1738
4,4'-DDE	6.0	26	29		1	88	5.4	70-130	20	09/06/2016 1738
4,4'-DDT	2.3	26	26		1	92	1.2	70-130	20	09/06/2016 1738
Dieldrin	1.7	26	25		1	89	5.1	70-130	20	09/06/2016 1738
Endosulfan I	ND	26	20		1	77	4.0	70-130	20	09/06/2016 1738
Endosulfan II	ND	26	22		1	85	5.1	70-130	20	09/06/2016 1738
Endosulfan sulfate	ND	26	22		1	87	4.4	70-130	20	09/06/2016 1738
Endrin	ND	26	22		1	84	2.4	70-130	20	09/06/2016 1738
Endrin aldehyde	ND	26	23		1	89	2.8	70-130	20	09/06/2016 1738
Endrin ketone	ND	26	22		1	87	4.8	70-130	20	09/06/2016 1738
Heptachlor	ND	26	26		1	101	1.3	70-130	20	09/06/2016 1738
Heptachlor epoxide	ND	26	22		1	86	5.6	70-130	20	09/06/2016 1738
Methoxychlor	ND	26	26		1	100	3.6	70-130	20	09/06/2016 1738

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		86	57-110
Tetrachloro-m-xylene		83	37-91

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21229-001
Batch: 21229
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/02/2016 1100

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	09/02/2016 1441
Aroclor 1221	ND		1	10	ug/kg	09/02/2016 1441
Aroclor 1232	ND		1	10	ug/kg	09/02/2016 1441
Aroclor 1242	ND		1	10	ug/kg	09/02/2016 1441
Aroclor 1248	ND		1	10	ug/kg	09/02/2016 1441
Aroclor 1254	ND		1	10	ug/kg	09/02/2016 1441
Aroclor 1260	ND		1	10	ug/kg	09/02/2016 1441

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		91	41-132
Tetrachloro-m-xylene		84	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21229-002
Batch: 21229
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/02/2016 1100

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	97		1	97	70-130	09/02/2016 1454
Aroclor 1260	100	100		1	104	70-130	09/02/2016 1454

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		95	41-132
Tetrachloro-m-xylene		89	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MS

Sample ID: RH26003-002MS
Batch: 21229
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/02/2016 1100

Cleanup: 3660B/3665A

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	ND	120	1500	N	50	1290	70-130	09/06/2016 1333
Aroclor 1260	ND	120	880	N	50	760	70-130	09/06/2016 1333

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		124	41-132
Tetrachloro-m-xylene		101	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MSD

Sample ID: RH26003-002MD
Batch: 21229
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/02/2016 1100

Cleanup: 3660B/3665A

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aroclor 1016	ND	110	2000	N,+	50	1840	31	70-130	20	09/06/2016 1347
Aroclor 1260	ND	110	800	N	50	718	9.6	70-130	20	09/06/2016 1347

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		124	41-132
Tetrachloro-m-xylene		91	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - MB

Sample ID: RQ21292-001
Batch: 21292
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/02/2016 1925

Cleanup: 3660B/3665A

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aroclor 1016	ND		1	10	ug/kg	09/06/2016 1201
Aroclor 1221	ND		1	10	ug/kg	09/06/2016 1201
Aroclor 1232	ND		1	10	ug/kg	09/06/2016 1201
Aroclor 1242	ND		1	10	ug/kg	09/06/2016 1201
Aroclor 1248	ND		1	10	ug/kg	09/06/2016 1201
Aroclor 1254	ND		1	10	ug/kg	09/06/2016 1201
Aroclor 1260	ND		1	10	ug/kg	09/06/2016 1201

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		96	41-132
Tetrachloro-m-xylene		86	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PCBs by GC - LCS

Sample ID: RQ21292-002
Batch: 21292
Analytical Method: 8082A

Matrix: Solid
Prep Method: 3546
Prep Date: 09/02/2016 1925

Cleanup: 3660B/3665A

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aroclor 1016	100	110		1	110	70-130	09/06/2016 1214
Aroclor 1260	100	120		1	118	70-130	09/06/2016 1214

Surrogate	Q	% Rec	Acceptance Limit
Decachlorobiphenyl		101	41-132
Tetrachloro-m-xylene		94	35-106

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ21039-001
Batch: 21039
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 08/31/2016 1101

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aluminum	ND		1	20	mg/kg	09/02/2016 1802
Antimony	ND		1	1.0	mg/kg	09/02/2016 1802
Arsenic	ND		1	0.75	mg/kg	09/02/2016 1802
Barium	ND		1	1.3	mg/kg	09/02/2016 1802
Beryllium	ND		1	0.25	mg/kg	09/07/2016 1242
Cadmium	ND		1	0.25	mg/kg	09/02/2016 1802
Calcium	ND		1	250	mg/kg	09/02/2016 1802
Chromium	ND		1	0.50	mg/kg	09/02/2016 1802
Cobalt	ND		1	1.3	mg/kg	09/02/2016 1802
Copper	ND		1	0.50	mg/kg	09/02/2016 1802
Iron	ND		1	5.0	mg/kg	09/07/2016 1242
Lead	ND		1	0.50	mg/kg	09/02/2016 1802
Magnesium	ND		1	250	mg/kg	09/07/2016 1242
Manganese	ND		1	0.75	mg/kg	09/02/2016 1802
Nickel	ND		1	2.0	mg/kg	09/02/2016 1802
Potassium	ND		1	250	mg/kg	09/02/2016 1802
Selenium	ND		1	1.0	mg/kg	09/02/2016 1802
Silver	ND		1	0.50	mg/kg	09/02/2016 1802
Sodium	ND		1	250	mg/kg	09/02/2016 1802
Thallium	ND		1	2.5	mg/kg	09/02/2016 1802
Vanadium	ND		1	2.5	mg/kg	09/02/2016 1802
Zinc	ND		1	2.5	mg/kg	09/02/2016 1802

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ21039-002
Batch: 21039
Analytical Method: 6010C

Matrix: Solid
Prep Method: 3050B
Prep Date: 08/31/2016 1101

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aluminum	1000	930		1	93	80-120	09/02/2016 1818
Antimony	50	48		1	95	80-120	09/02/2016 1818
Arsenic	250	250		1	101	80-120	09/02/2016 1818
Barium	500	530		1	106	80-120	09/02/2016 1818
Beryllium	100	100		1	103	80-120	09/07/2016 1257
Cadmium	50	47		1	94	80-120	09/02/2016 1818
Calcium	2000	1900		1	96	80-120	09/02/2016 1818
Chromium	250	250		1	100	80-120	09/02/2016 1818
Cobalt	100	100		1	101	80-120	09/02/2016 1818
Copper	100	100		1	102	80-120	09/02/2016 1818
Iron	1000	1000		1	101	80-120	09/07/2016 1257
Lead	250	250		1	101	80-120	09/02/2016 1818
Magnesium	2000	2000		1	101	80-120	09/07/2016 1257
Manganese	100	100		1	102	80-120	09/02/2016 1818
Nickel	100	100		1	102	80-120	09/02/2016 1818
Potassium	2000	2200		1	110	80-120	09/02/2016 1818
Selenium	50	49		1	98	80-120	09/02/2016 1818
Silver	50	47		1	95	80-120	09/02/2016 1818
Sodium	2000	2200		1	108	80-120	09/02/2016 1818
Thallium	40	41		1	101	80-120	09/02/2016 1818
Vanadium	100	99		1	99	80-120	09/02/2016 1818
Zinc	100	100		1	101	80-120	09/02/2016 1818

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MB

Sample ID: RQ20870-001
Batch: 20870
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 936

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.083	mg/kg	08/30/2016 1202

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - LCS

Sample ID: RQ20870-002
Batch: 20870
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 936

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.83	0.87		1	104	80-120	08/30/2016 1204

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MS

Sample ID: RH26003-018MS
Batch: 20870
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 936

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	ND	0.86	0.85		1	99	80-120	08/30/2016 1353

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

TAL Metals - MSD

Sample ID: RH26003-018MD
Batch: 20870
Analytical Method: 7471B

Matrix: Solid
Prep Method: 7471B
Prep Date: 08/29/2016 936

Parameter	Sample Amount (mg/kg)	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	ND	0.80	0.80		1	100	6.6	80-120	20	08/30/2016 1355

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63888

Client: SYNTERRA	Report to Contact: HOWARD FRANK	Telephone No. / E-mail: hfrank@synterracorp.com	Quote No.
Address: 148 RIVER ST SUITE 220	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page 1 of 4
City: GREENVILLE State: SC Zip Code: 29601	Printed Name		RH26003
Project Name: FORMER BURLINGTON LAGOON			
Project No.: 1112.11	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	8035 Kit	RB	Remarks / Cooler I.D.
BL-SS-70	8/25/16	1142	G		X		X						X	
BL-SS-48A	8/25/16	1000	G		X		X						X	
BL-SS-74	8/25/16	1110	G		X		X						X	
BL-SS-58	8/25/16	1550	G		X		X						X	
BL-SS-48B	8/25/16	1004	G		X		X						X	
BL-SS-52B	8/25/16	1017	G		X		X						X	
BL-SS-63	8/24/16	1600	G		X		X						X	
BL-SS-73	8/25/16	1120	G		X		X						X	
BL-SS-52	8/25/16	1700	G		X		X						X	
BL-SB-80	8/23/16	1152	G		X		X						X	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☑ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	8/26/16	824	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	8/26/16	0824

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 3.7 °C 4.9

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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Chain of Custody Record

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106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63887

Client	SYNTERRA
Report to Contact	HOWARD FRANK
Telephone No. / E-mail	hfrank@synterracorp.com
Quote No.	
Address	148 RIVER ST SUITE 220
Sampler's Signature	X
Analysis (Attach list if more space is needed)	
Page	2 of 4
City	GREENVILLE
State	SC
Zip Code	29601
Printed Name	
Project Name	FORMER BURLINGTON LAGOON
Project No.	1112.11
P.O. No.	

RH26003

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Solid	Air/Air Media	No. of Containers by Preservative Type: Unpres.	HCl/ICE	HNO3	H2SO4	NaOH	Solid Kit		PCBs	SVOC	Pesticides	TPH Metals 3 TCL						Remarks / Cooler I.D.
BL-SS-59	8/24/16	1545	6		X		X							X									
BL-SS-52A	8/25/16	1025	6		X		X							X									
BL-SS-75	8/25/16	1108	6		X		X							X									
BL-SB-80	8/23/16	1152	6		X		X							X									
BL-SS-53A	8/25/16	1020	6		X		X							X									
BL-SS-11A	8/25/16	1207	6		X		X							X									
BL-WA-01	8/24/16	1318	6		X		X							X	X	X	X	X					
BL-SS-48	8/24/16	1448	6		X		X							X	X	X	X	X					
BL-WA-2	8/24/16	1301	6		X		X							X	X	X	X	X					
BL-SS-57	8/25/16	1053	6		X		X							X	X	X	X	X					

Turn-Around Time Required (Prior lab approval required for expedited TAT.)
☑ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	8/26/16	824	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by	8/26/16	0824

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 3.7 °C 4.9

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63889

Client: SYNTERRA
Report to Contact: Howard Frank
Telephone No. / E-mail: hfrank@syntarra corp. com
Quote No.:
Address: 148 River St Suite 220
Sampler's Signature: X
Analysis (Attach list if more space is needed)
Page 3 of 4
City: Greenville | State: SC | Zip Code: 29601
Printed Name:
RH26003
Project Name: Former Burlington Lagoon
Project No.: 1112.11
P.O. No.:

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# of Containers	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	ZnOAc/NaOH	PCBs	SVOCs	Pesticides	TPH, Metals, or TCL	VOCs				Remarks / Cooler I.D.
BL-BKG-SS	8/25/16	857	6		X		X						X	X	X	X	X	X			
BL-BKG-SD	8/25/16	820	6		X		X						X	X	X	X	X	X			
BL-BKG-SB	8/25/16	905	6		X		X						X	X	X	X	X	X			
BL-SS-67	8/24/16	1336	6		X		X						X	X	X	X	X				
BL-SS-53	8/24/16	1657	6		X		X						X	X	X	X	X				
BL-SD-19	8/22/16	1520	6		X		X						X	X	X	X	X				
BL-DS 19	8/22/16	1525	6		X		X						X	X	X	X	X				
BL-SS-48 (SD)	8/25/16	957	6		X		X											X			
BL-SS-7[illegible]5A	8/25/16	1618	6		X		X						X								
BL-SS-7[illegible]5B	8/25/16	1612	6		X		X						X								

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by: [signature]	8/26/16	824	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	8/26/16	0824

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 3.7 °C
4.9

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 63890

Client: SYNTERRA	Report to Contact: HOWARD FRANK	Telephone No. / E-mail: hfrank@synterracorp.com	Quote No.
Address: 148 RIVER ST SUITE 220	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page 4 of 4
City: GREENVILLE; State: SC; Zip Code: 29601	Printed Name		RH26003
Project Name: FORMER BURLINGTON LAGOONS			
Project No.: 1112.11	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres	H2SO4	HNO3	HCl	NaOH	5035 Kit		PCBs								Remarks / Cooler I.D.
BL-SS-75C	8/25/16	1612	G		X		X							X								
BL-SS-75D	8/25/16	1622	G		X		X							X								

Turn Around Time Required (Prior lab approval required for expedited TAT.) ✓ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification ✓ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	8/26/16	8:24	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by: [signature]	8.26.16	0824

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 3.7 °C 4.9

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 06-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-04

Page 1 of 1
Effective Date: 02/05/2016
Expiry Date: 02/05/2021

Sample Receipt Checklist (SRC)

Client: Synterra Cooler Inspected by/date: mcm/082616 Lot #: RH26003

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ Other

Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

pH strip ID: _____ Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
/3.7/3.7 °C /4.9/4.9 °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM was notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☐	No ☑		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
mcm 8/26/16 Yes ☑	No ☑		15. Were any samples containers missing/excess (circle one) samples not listed on COC?
Yes ☐	No ☐	NA ☑	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☑	No ☐	19104	22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC >0.2 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____

Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____

Sample labels applied by: mcm Verified by: _____ Date: 8/26/16

Comments: Sample 014 was not received. SR believes -014 is a repeated mark down of -010. -033 was not listed on COC.

58341

SEDIMENT AND SOIL SAMPLING AND ANALYSIS WORK PLAN

FOR

FORMER BURLINGTON LAGOON SITE
350 CHESTERFIELD HIGHWAY
CHERAW, SOUTH CAROLINA

RECEIVED
AUG 15 2016
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

SUBMITTED: AUGUST 12, 2016

Prepared For:

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DIVISION OF SITE ASSESSMENT, REMEDIATION AND REVITALIZATION
BUREAU OF LAND AND WASTE MANAGEMENT
COLUMBIA, SOUTH CAROLINA

Prepared By:

synTerra

206

148 River Street, Suite 220 ● Greenville, SC 29601 ● Phone- (864) 421-9999 ● Fax- (864) 421-9909 ● www.synterracorp.com

SEDIMENT AND SOIL SAMPLING AND ANAYSIS WORK PLAN

FORMER BURLINGTON LAGOON SITE
350 CHESTERFIELD HIGHWAY
CHERAW, SOUTH CAROLINA

PREPARED FOR

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DIVISION OF SITE ASSESSMENT, REMEDIATION AND REVITALIZATION
BUREAU OF LAND AND WASTE MANAGEMENT
COLUMBIA, SOUTH CAROLINA

SUBMITTED: AUGUST 12, 2016

RECEIVED
AUG 1 3 2016
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

PREPARED BY:

SYNTERRA CORPORATION
148 RIVER STREET, SUITE 220
GREENVILLE, SOUTH CAROLINA

HOWARD J. FRANK REGISTERED No. 2173 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Howard Frank, PG
SC License Number 2173

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APPENDICES

Appendix A Dexsil L2000DX Manual

1.0 INTRODUCTION

This Sampling and Analysis Plan (SAP) has been prepared specifically for the Former Burlington Lagoon site. The Former Burlington Lagoon site (Site) is adjacent to the Burlington facility (currently operating as Highland Industries) located at 350 Chesterfield Highway (Highway 9) in Cheraw, South Carolina. **Figure 1** is a USGS topographic map showing the location of the Site.

A review of historical information by the South Carolina Department of Health and Environmental Control (SCDHEC) indicated the presence of structures that appear to be lagoons in an area north of the existing Highland Industries building, in a residential neighborhood. Historical information regarding the type of waste discharged to the lagoon(s) is limited, but the data suggests the lagoons were used as wastewater pretreatment settling basins and/or sludge drying beds prior to discharge of water to the city-owned wastewater treatment system. Records obtained by SCDHEC suggest that sludge accumulated in these lagoons and was alleged to be removed prior to closure of the lagoons. Samples collected from the area by SCDHEC in February of 2016 identified Polychlorinated Biphenyls (PCBs) and Polycyclic Aromatic Hydrocarbons (PAHs) in sediment and PCBs in surface and subsurface soil at concentrations greater than United States Environmental Protection Agency (USEPA) Risk Based Screening Levels (RSLs) for Residential Soil. At least one undeveloped piece of property in a nearby residential area has PCBs in surface and subsurface soil.

The Site is located in the Upper Coastal Plain Physiographic Province of South Carolina. This area is typically composed of unconsolidated sand, silt and clay. Depth to water at the Site is unknown, but is anticipated to be located between 10 to 15 feet below land surface (bls) in the shallow unconfined aquifer.

1.1 Purpose

To determine the extent of PCBs and other constituents of concern (CoCs) in soil and sediment associated with the former Site, additional sediment and soil sample collection and analysis is required. On August 2, 2016, representatives of SynTerra and SCDHEC met at the Site to walk the study area and observe and note site conditions. SCDHEC identified more than 100 potential sediment and soil sample locations (**Figures 2 through 4**) to be screened for the presence of PCBs.

2.0 HEALTH AND SAFETY PLAN

Prior to the commencement of field activities, SynTerra will prepare a site specific Health and Safety Plan (HASP) consistent with Occupational Safety and Health Administration (OSHA) regulations. The HASP will be used to identify potential hazards and provide procedures to safely perform work.

This HASP will be reviewed periodically. Approvals and revisions to the HASP will be recorded on the Health and Safety Plan Approval and Revision Record.

3.0 SEDIMENT AND SOIL SAMPLING AND ANALYSIS

Sample collection will be conducted in accordance with the USEPA Region IV Field Branches Quality System and Technical Procedures and standard SCDHEC sampling protocols. Sediment and soil samples will be collected in appropriate bottleware provided by the contract laboratory. SynTerra personnel will be responsible for proper sample preservation, sample packing, chain of custody, and delivery of the samples to the contract laboratory. A discussion of the field activities is provided below.

The specific sediment and soil samples that will be submitted for laboratory analysis will be determined in the field by the SCDHEC Project Manager based on field screening results and observations. Since this information will not be determined until the end of the sampling activities, sediment and soil samples will be placed in aluminum foil pans and mixed with a clean stainless-steel spoon until homogenized. Once the collected material has been homogenized, a sample will be collected for field screening. The remaining material will be kept in the aluminum pan, covered with aluminum foil, labeled with the sample ID, sample date, and sample time, and stored in a secure location.

After material has been collected from a sample location, a pin-flag or survey stake will be labeled with the sample location ID, as determined by the SCDHEC Project Manager, and placed at the sample location. The GPS coordinates of the actual sample location will be determined using a hand-held GPS device and will be recorded.

Based on the results from the field screening, select samples will be recovered from storage and samples will be collected in appropriate sample containers provided by the laboratory for analysis, which may include one or more of the following:

- Target Analytic List (TAL) metals plus cyanide by EPA 6010C/9012B
- TCL semi-volatile organic compounds (SVOCs) EPA 8270D
- TCL pesticides by EPA 8081B
- TCL PCBs by EPA 8082A
- PCB Congeners

Samples to be analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) will not be collected from the material collected in the aluminum pans. Rather, samples for TCL VOC analysis will be collected by returning to the original sample

location and collecting the TCL VOC sample sediment or soil directly adjacent to the original sample.

3.1 Subsurface Location of Utilities

Due to the potential for underground utilities to be located at the subject site, the proposed drilling areas may be cleared by a utility location subcontractor in addition to municipal utility locators. Ground penetrating radar (GPR), electromagnetic resonance (EMR) and/or other acceptable techniques may be employed.

3.2 Sampling Activities

Experienced field personnel will conduct sampling activities. A copy of the sampling procedures and protocols will be provided to the sampling team and will be reviewed by that team prior to each sampling event. Personnel will wear new, disposable nitrile gloves during all sampling activities. At a minimum, the gloves will be replaced at each sample location.

3.2.1 Sediment Sampling

Sediment samples will be collected from the drainage bed surface (0 to 3 inch interval) and at approximately 12 inches below the drainage bed surface at each proposed location (**Figures 2 through 4**). Sediment samples will be collected using a clean stainless-steel shovel or hand auger. The collected sediment will be placed in a clean aluminum foil pan and mixed with a clean stainless-steel spoon until homogenized. Equipment will be decontaminated prior to use and decontaminated in the field between sample locations.

If a location is dry, a sample will be collected directly into the aluminum pan for mixing. If flowing water is present, sediment will initially be placed in a steel colander and allowed to drain. Once most of the water has been drained, the sediment will be placed in an aluminum pan for mixing.

Once the collected sediment has been homogenized, a sample will be collected for field screening and the remaining material will be stored as discussed above in **Section 3.0**.

Once the SCDHEC Project Manager has determined which samples will be collected for laboratory analysis, those samples will be retrieved from storage, placed in appropriate sample containers provided by the laboratory and placed on ice in a clean sample cooler. Samples for TCL VOC analysis will be collected

as discussed above in **Section 3.0**. The coolers will be placed in a secure location until shipment to the laboratory.

3.2.2 Shallow Soil Sampling

Shallow soil consists of surficial soil (0 to 6 inch interval) and subsurface soil (6 to 12 inch interval). Shallow soil samples will be collected in a step-wise approach. Sampling will begin with the area where PCB concentrations have been detected above RSL and sampling will be "stepped-out" further and deeper based on results from the soil screening. The approximate location of all proposed shallow soil locations are shown on **Figures 2 and 3.** Not all locations may be sampled.

Shallow soil samples will be collected using a stainless-steel shovel or hand auger. The collected soil will be placed in a clean aluminum foil pan and mixed with a clean stainless-steel spoon until homogenized. Equipment will be decontaminated prior to use and decontaminated in the field between sample locations.

Once the collected soil from each interval has been homogenized, a sample will be collected for field screening and the remaining material will be stored as discussed above in **Section 3.0**.

Once the SCDHEC Project Manager has determined which samples will be collected for laboratory analysis, those samples will be retrieved from storage, placed in appropriate sample containers provided by the laboratory and placed on ice in a clean sample cooler. Samples for TCL VOC analysis will be collected as discussed above in **Section 3.0**. The coolers will be placed in a secure location until shipment to the laboratory.

3.2.3 Deep Soil Sampling

Deep soil samples are considered soil samples collected from greater than two-feet bls, but shallower than the water table, which is expected to be located between 10 and 15 feet below land surface (bls). Seven soil borings locations have been identified where deep soil samples may be collected. As shown on **Figures 3 and 4**, five deep soil samples are located within the former lagoon area and two deep soil borings are located along the northern boundary of the plant. Due to possible concrete located within the former lagoon area, sonic drilling is proposed.

Sonic drilling works by sending high frequency resonant vibrations down the drill string to the drill bit, which fluidizes the soil particles at the drilling bit, allowing for fast and easy penetration through most geological formations. Sonic drilling is used to drill through differing lithologic formations without changing drilling equipment and can minimize investigative derived waste (IDW) generated during drilling.

Similar to Geoprobe® direct push drilling, continuous soil cores are generated. During sonic drilling, soil samples are typically collected by placing a new plastic sleeve on the inner rod of the sonic equipment, which is typically ten feet long. The diameter of the drill rods varies depending on the requirements of the project. The sonic equipment is then vibrated to the initial depth interval, retrieved and the plastic sleeve is removed and opened and a new sleeve is inserted and the sonic equipment is driven the next interval. This process is repeated until the desired depth is reached.

As with DPT drilling, upon retrieval the plastic sleeves are opened and the lithology of the soil cores are observed and described in the field. Discreet samples will be collected at two-foot intervals, placed in a clean zip-lock bag and screened in the field for volatile organics with an Organic Vapor Analyzer (OVA) or Photoionization Detector (PID).

Samples for TCL VOC analysis will be collected from each interval in appropriate containers prior to the soil being placed in a zip-lock bag, placed in a sample cooler on ice, and stored in a secure location. The remaining soil from each interval, after being screened for organics, will be placed in a clean aluminum foil pan and mixed with a clean stainless-steel spoon until homogenized. Equipment will be decontaminated prior to use and decontaminated in the field between sample locations.

Once the collected soil from each interval has been homogenized, a sample will be collected for field screening and the remaining material will be stored as discussed above in **Section 3.0**.

Once the SCDHEC Project Manager has determined which samples will be collected for laboratory analysis, those samples will be retrieved from storage, placed in appropriate sample containers provided by the laboratory and placed on ice in a clean sample cooler. The coolers will be placed in a secure location until shipment to the laboratory.

After the soil samples have been collected, each boring will be backfilled with bentonite pellets which will be hydrated with clean potable water to seal the bore hole.

3.3 Field Screening Procedures

Sediment and soil samples collected for field screening will be screened using the Dexsil L2000DX PCB/Chloride Analyzer. The L2000DX PCB/Chloride Analyzer is a portable field instrument incorporating an ion specific electrode that can quantify chlorinated compounds in all types of soil. Field screening of soil samples will be conducted in accordance with the manufacturer's guidelines. A copy of the L2000DX PCB/Chloride Analyzer manual is provided in **Appendix A**.

In general, 10 grams of material will be required for analysis. According to the manufacturer, wet samples can interference with the reagents and result in a lower than actual PCB concentration. As such, wet samples (soil or sediment) will need to be dried prior to field screening. To accomplish this, SCDHEC will provide an oven and cooking equipment to dry out the samples.

Results from the field screening will be recorded on a summary table and will be used by the SCDHEC Project Manager to determine which samples will be submitted to the laboratory for analysis.

3.4 Chain-of-Custody Procedures

The handling of samples will be traceable from the time of collection to the time of final sample disposition by the use of chain-of-custody procedures. Field sampling personnel will be responsible for collecting the samples and for logging the samples into assigned field notebooks or a sample collection log. The field sampling personnel will complete and verify the chain-of-custody forms. The laboratory sample custodian and analysts will be responsible for custody of samples at the laboratory.

Prior to collecting samples in the field, the sampling personnel will obtain the sample bottles necessary for sampling. A self-adhesive sample label will be affixed to each sample bottle before sample collection. The field sampler will complete the label with the appropriate information using waterproof ink. At a minimum, the sample label will contain the following information:

- Client - Job Name/Project Number
- Sample Identification

- Date and Time Collected (except for duplicate samples)
- Sampler's Signature (or initials)
- Required Preservatives

Chain-of-custody forms will accompany the sample containers to document the transfer of the containers and samples from the originating laboratory through the field and to the laboratory receiving the samples for analyses. A sample container is under custody in the field if the following conditions exist:

- It is in the field investigator's actual possession.
- It is in the field investigator's view, after being in his/her physical possession.
- It was in the field investigator's physical possession and then she/he secured it to prevent tampering.
- It is in a secure area restricted to authorized personnel only.

The field sampling personnel will complete and verify the chain-of-custody forms.

For shipment to the laboratory, shipping containers will be sealed and accompanied by the chain-of-custody record, with appropriate signatures. The transfer of custody is the responsibility of the field sampling personnel and the laboratory. Upon receipt by the laboratory, a sample custodian will inspect the condition of the samples, check the temperature of the sample cooler, reconcile the sample(s) received against the chain-of-custody record, log in the sample(s) in the laboratory sample tracking system, and store the sample(s) in a secured sample storage area maintained at a temperature between 0° and 4° Celsius (C) until assigned to an analyst for analysis.

3.5 Sample Handling and Analysis

Sample containers, preservation methods, and holding times that meet USEPA standards will be used. Samples will be collected in new, preserved containers provided by the contract laboratory. Sample containers will be pre-preserved by the laboratory, as may be required by the analytical methodology.

The preferred method of transfer of samples to the laboratory will be via laboratory courier. If a courier is not available and the samples need to be shipped to the laboratory via commercial carrier, the following procedure will be implemented:

Step	Procedure
1.	Collect and seal the samples as outlined in this plan.
2.	Place sample containers in laboratory shipping container(s). Samples will be packed securely with packing material to protect the sample containers from accidental breakage during shipment and to prevent a leak or spill.
3.	Fill shipping container with enough ice to last the trip. Place ice in sealed plastic bags around sample containers.
4.	Complete the chain-of-custody form(s).
5.	Place the chain-of-custody form in a sealed plastic bag and place inside the shipping container.
6.	Seal shipping container using packing tape or duct tape.
7.	Deliver or ship to the laboratory. Fastest available shipping methods will be used whenever required by short holding times or project schedules.

3.6 Analytical Methods

The laboratory performing the analyses will use the most current approved version of USEPA analytical methods. The record of laboratory analyses shall include the methods used (by number), the sample preparation date (if applicable), and the date of actual analysis. Data from samples that are not analyzed within the recommended holding times will be considered suspect. Any deviation from USEPA-approved method shall be adequately tested to ensure that the quality of the results meets the performance specifications (*e.g.*, detection limit, sensitivity, precision, accuracy) of the reference method. A planned deviation shall be justified and submitted for approval by SCDHEC.

3.7 Waste Materials Containment and Disposal

Investigation derived waste materials (IDW) generated during field activities will be characterized for disposal in accordance with applicable regulations. In order to minimize the quantity of IDW generated during field activities, sediment and soil with field screening PCB concentrations less than 1 part per million (ppm) and not submitted for laboratory analysis, will be placed back in the sample location from where they were collected. If a sediment or soil sample has a screening value greater than 1 ppm, and not submitted for laboratory analysis, that material will be placed in an appropriate container for proper off-site disposal. Empty used sample containers and aluminum

pans, along with used gloves, paper towels and other items used during collection activities, will be disposed as trash.

Since groundwater sampling will not be collected during field activities, the only water anticipated to be generated will be from equipment decontamination activities. Decontamination water will be containerized and disposed off-site at a licensed disposal facility. Proper waste manifests will be maintained during the transportation and disposal of the IDW.

3.8 Decontamination

Proper decontamination of sampling equipment is essential to minimize the possibility of cross contamination of samples. Previously used sampling equipment will be decontaminated before sampling and between the sample collection.

Sampling equipment that is not dedicated to a single purpose will be decontaminated according to the following procedure:

Step	Procedure
1.	Clean with tap water and laboratory detergent using a brush, if necessary to remove particulate matter and surface films
2.	Rinse thoroughly with tap water
3.	Rinse thoroughly with deionized water
4.	Rinse twice with pesticide-grade isopropanol
5.	Rinse thoroughly with organic-free water
6.	Allow to air dry; wrap with aluminum foil and then with plastic (if desired) if equipment is not used that day, otherwise, wrap in aluminum or plastic to minimize the possibility of contamination if equipment is going to be stored or transported

Spent decontamination fluids will be contained in an appropriate container(s) and disposed of at the off-site treatment facility.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

To assess and verify the performance of the field sampling and laboratory techniques, the following quality control procedures will be followed.

4.1 Duplicate Sample

One duplicate sample will be collected at random for every 10 samples (10 percent). This applies to the samples collected for field screening as well as laboratory analysis. Field duplicate samples are taken within five minutes of collecting the original samples and include all the sub-samples. A new sample is collected from the sampling point for the field duplicate. The samples are shipped to the laboratory with the other sample bottles for analysis. The precision resulting from analysis of field duplicates is a function of the variance of sample composition, the variance of the sampling technique, and the variance of laboratory analysis.

4.2 Field Equipment Blank

One field equipment blank will be collected each day of sampling activities. Field equipment blanks will be an aqueous sample of distilled or de-ionized water that is analyte-free collected during sediment sampling to assess potential contamination of samples from the Site environment and sampling equipment. The blank water will be poured over/through the sampling equipment (i.e. hand auger bucket or stainless steel shovel) and collected in the appropriate sample bottle. Field blanks will be analyzed for the full suite of analytical parameters.

4.3 Trip Blank

A trip blank of deionized water sealed in 40-milliliter VOC vials at the laboratory will be shipped with the sample bottles to the field and back to the laboratory. One trip blank will accompany each VOC sample cooler submitted to the laboratory. Other appropriate sample containers may be used at the discretion of the laboratory. Analytical results from trip blanks will be used to evaluate contamination introduced by laboratory equipment and sample handling and transportation procedures. Trip blanks will be analyzed for TCL VOCs only.

4.4 Laboratory Quality Assurance/Quality Control

Samples from the Former Burlington Lagoon Site will be analyzed by a qualified commercial environmental laboratory licensed in South Carolina. At a minimum, laboratory quality control will include analysis of method blank samples, laboratory control samples, and matrix spike samples.

4.5 Data Validation

Laboratory analytical data will be reviewed for precision, accuracy, and completeness in accordance with the permit requirements, the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA-540-R-08-01, June 2008), *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (EPA540/R-10/011, January 2010), and the most recently promulgated versions of the analytical methods.

After receipt of the laboratory analytical results, the data package will be reviewed for completeness to verify the appropriate samples were collected and the requested analyses performed. The sample collection logs will be reviewed and compared to the chain-of-custody documentation to verify collection information is properly transcribed. The chain-of-custody forms will be verified against the laboratory sample check-in documentation.

Laboratory batch quality control data will be evaluated for precision, accuracy, and completeness. Trip blank and equipment blank data will be reviewed to verify no contamination was present.

5.0 REFERENCES

SCDHEC, May 2015, *Quality Assurance Program Plan for the Underground Storage Tank Management Division*, Revision 3.

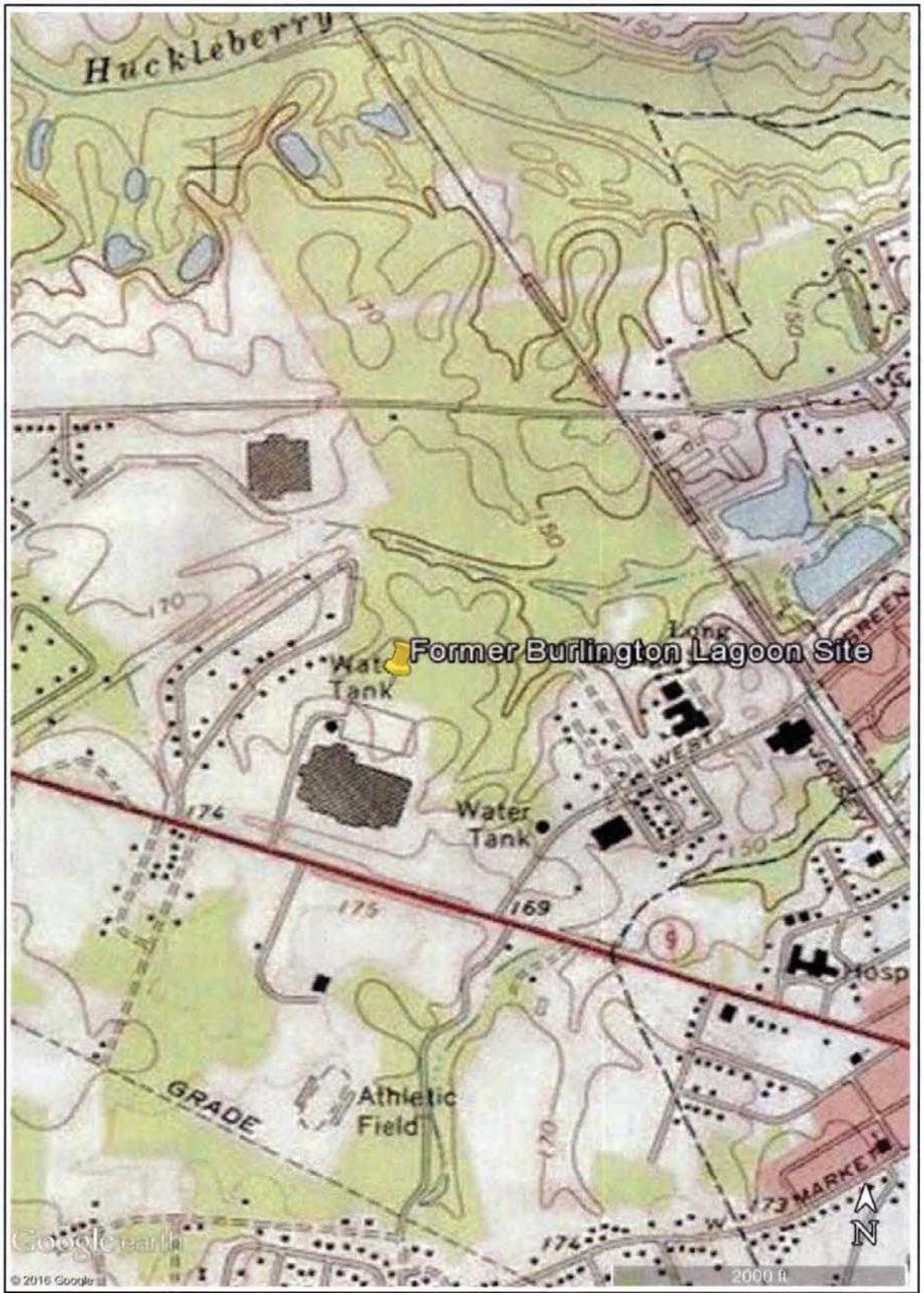
SCDHEC, July 15, 2016, *Notice of Site Work, Letter from G. Ken Taylor (SCDHEC) to Kathryn Webb (SynTerra).*

US EPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA-540-R-08-01, June 2008)

US EPA *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (EPA540/R-10/011, January 2010)

US EPA, *Region IV Field Branches Quality System and Technical Procedures.*

FIGURES



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DRAWN BY: H. Frank Date: 8/1/2016 PROJECT MANAGER: Howard Frank

FIGURE 1
SITE LOCATION MAP
FORMER BURLINGTON LAGOON SITE
350 CHESTERFIELD HIGHWAY
CHERAW, SOUTH CAROLINA

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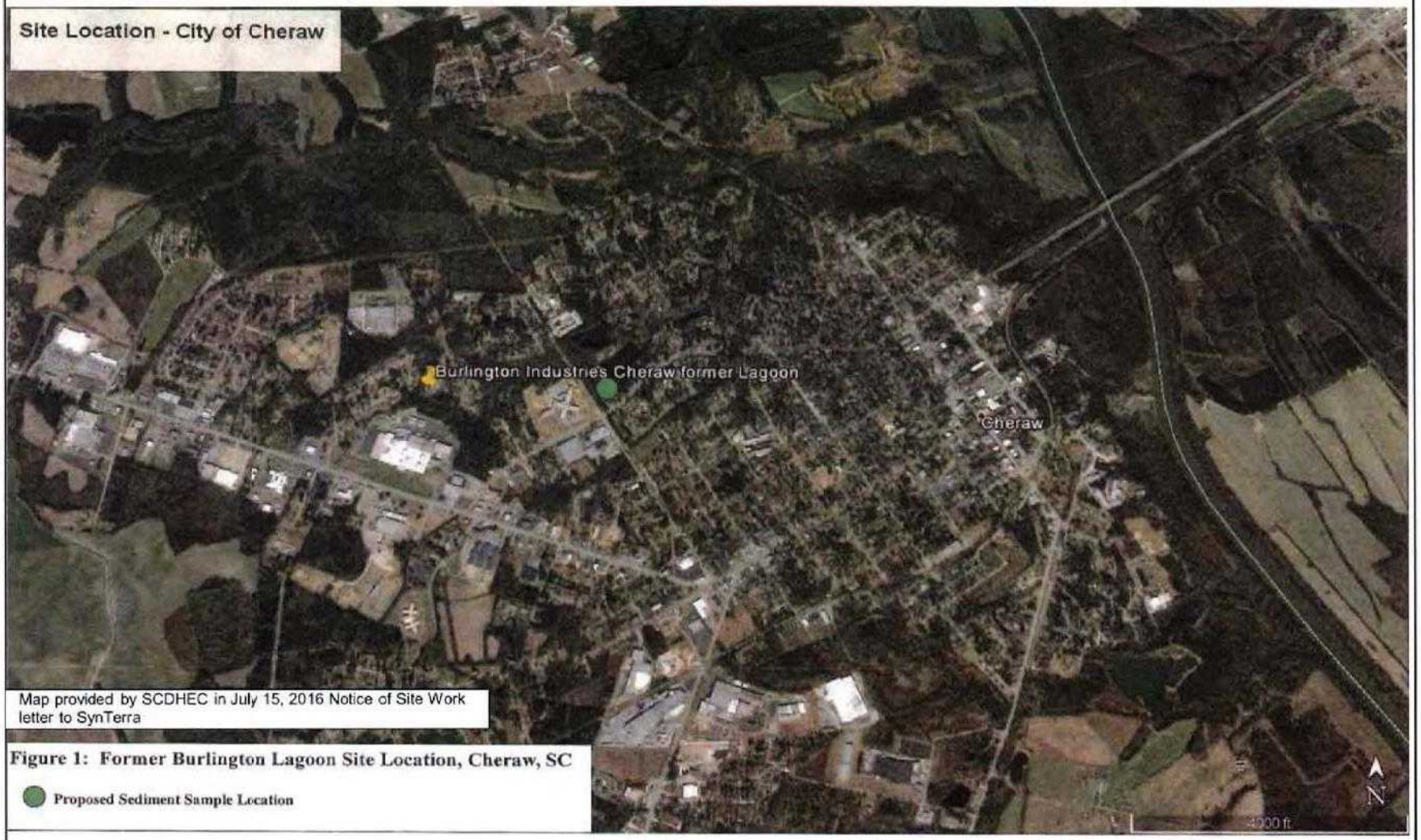

Map provided by SCDHEC in July 15, 2016 Notice of Site Work letter to SynTerra

Figure 1: Former Burlington Lagoon Site Location, Cheraw, SC

Proposed Sediment Sample Location

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FIGURE 2
PROPOSED SAMPLE LOCATION MAP-BACKGROUND
FORMER BURLINGTON LAGOON SITE
350 CHESTERFIELD HIGHWAY
CHERAW, SOUTH CAROLINA

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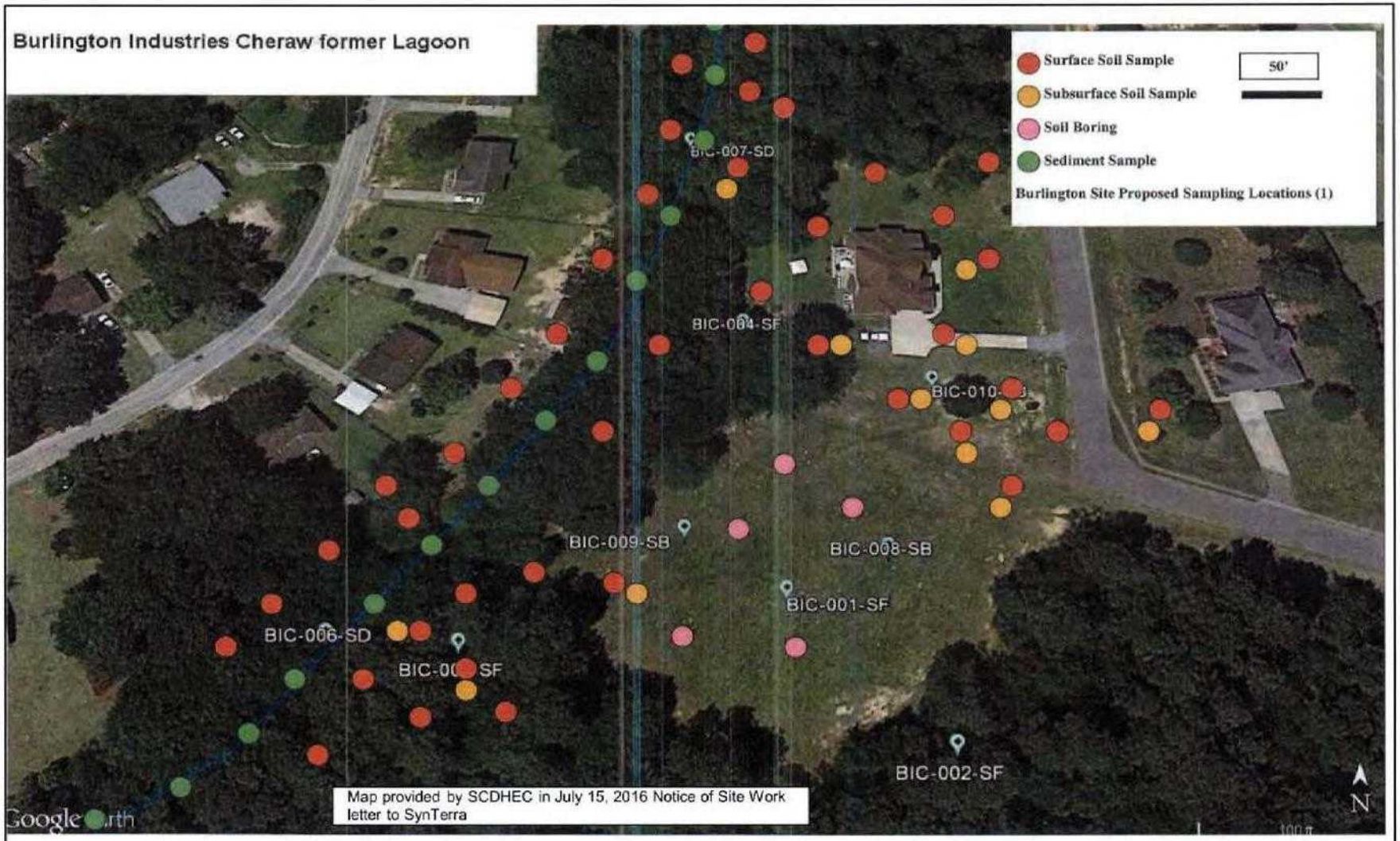

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FIGURE 3
PROPOSED SAMPLE LOCATION MAP-LAGOON AREA
FORMER BURLINGTON LAGOON SITE
350 CHESTERFIELD HIGHWAY
CHERAW, SOUTH CAROLINA

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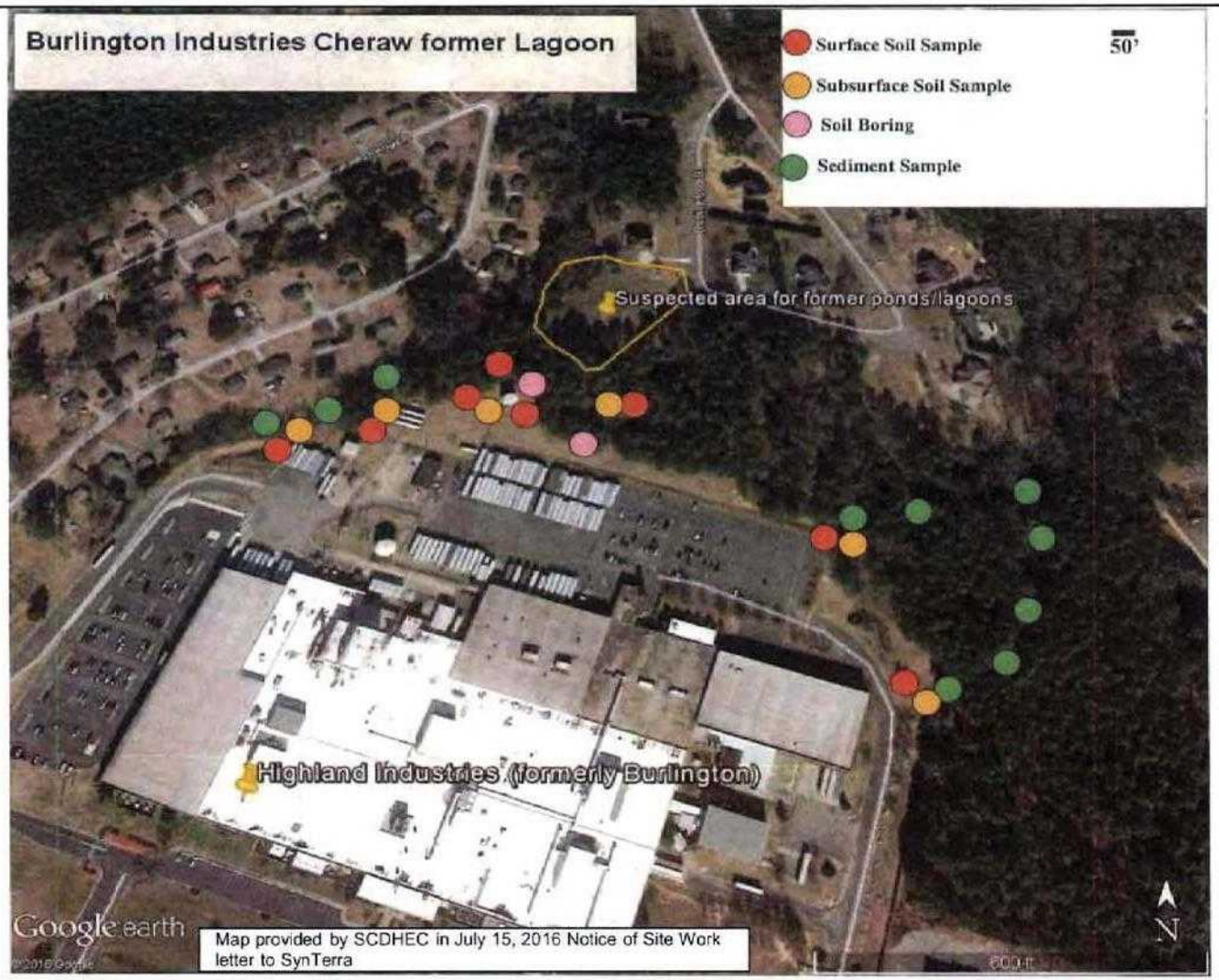

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FIGURE 4
PROPOSED SAMPLE LOCATION MAP-PLANT AREA
FORMER BURLINGTON LAGOON SITE
350 CHESTERFIELD HIGHWAY
CHERAW, SOUTH CAROLINA

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Table

TABLE 1
Summary of PCB Field Screening Information
Former Burlington Lagoon Site
Cheraw, South Carolina

Sample Location ID	Date	Time	Latitude	Longitude	Sample Type (Sediment/Soil)	Sample Depth (feet bls)	PCB Screening Results (ppm)
SS-01-0-6	7/26/2016	11:00	34.698065	-79.912932	Sediment	0 to 0.5	2.5

Notes:
1) Coordinates based on hand-held GPS device.

APPENDIX A
DEXSIL L2000DX MANUAL

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Introduction to the L2000DX Analysis System

Congratulations on your purchase of the L2000DX Analyzer, a versatile analysis system suitable for the analysis of a wide variety of chlorinated organic compounds in a variety of matrices. The basic principal of the L2000DX system is to measure the total organic chlorine content of a sample and equate that to an equivalent concentration of the target or expected analyte. If all of the organic chlorine present is assumed to be derived from the target analyte, then an upper limit is established for the compound in question. (If other organic chlorines are present, in addition to the target analyte, they will be counted as the target analyte.) To accomplish this, all of the organically bound chlorine must be converted into inorganic chloride and the resulting chloride quantified. Once the total chlorine content of the sample is known, a conversion factor is used to convert the chloride concentration into an equivalent concentration of the target analyte. If the contaminant is known, the resulting concentration estimates will accurately correlate with the actual concentration of the analyte in the sample as determined by GC analysis in the lab. If the contaminant is unknown, a conservative or worst case conversion factor is chosen to provide an upper limit for the concentration of the target analyte in the sample.

There are three basic steps involved in the chemical analysis for total halogen by the L2000DX:

- Sample Preparation
- Conversion to Inorganic Chloride
- Quantification

The sample preparation step determines the type of chlorine detected, i.e., organic, inorganic, or total, and is matrix dependent. The sample preparation can be as simple as collecting a transformer oil sample, or can involve the extraction of a soil or water sample. In the case of a wipe sample, the surface is wiped and the wipe-gauze is extracted. The steps involved in the conversion to inorganic chloride reaction and the chloride quantification are the same for all matrices. The steps in the conversion to inorganic chloride involves the reaction of the sample with metallic sodium and the extraction ofthe resulting chloride into an aqueous buffer system. A chloride specific electrode is used to quantify the extracted chloride. Using stored conversion factors, the chloride value is then converted to an equivalent concentration of analyte.

Sample Preparation

The L2000DX can be used to analyze the following matrices:

- Transformer Oil
- Soil
- Water
- Surface Wipe

Each matrix requires different preparation prior to the conversion reaction step and subsequent quantification. Each of the matrix preparation steps are described in detail under **Sample Preparation.**

The routine analysis of transformer oil requires no sample preparation other than to collect a clean sample without introducing any extraneous sources of chloride into the sample, such as perspiration or road salt. This is important because, for transformer oil, there is no sample cleanup procedures to remove inorganic chloride contamination. Once collected the sample is reacted and the resulting chloride is extracted and quantified.

The chlorine quantified in this case is the total chlorine contained in the sample. Transformer oil is typically free of inorganic chlorine eliminating the need for any sample cleanup procedure. In special cases where transformers have failed due to water contamination or have been removed for service and stored in areas near seawater or road salt, inorganic chloride may cause an elevated reading.

Before a soil sample can be analyzed, the organic contaminates must be extracted using an organic solvent. Because soil samples invariably contain inorganic chlorine, the soil extract is cleaned up to remove all traces of the inorganic chloride. The cleaned extract is then reacted and the resulting chloride is quantified. For soil analyses, therefore, only the organic chlorine content is ever quantified. Extraneous sources of chloride contamination such as road salt or sea salt are **not** detected.

As with soil samples, a water sample must also be extracted prior to final analysis. The ratio of the solvent volume to the sample volume determines the sensitivity of the test. The extract is reacted and the chloride is quantified as above. As with soil samples, only the organic chlorine is quantified in water samples.

Wipe tests require that a specific area be wiped using a hexane-soaked gauze. The gauze is extracted with an organic solvent, reacted, and the chlorine content determined. For wipe samples, the standard procedure eliminates most all inorganic chlorine contamination. Areas with very high surface concentration of salts may need to be prepared differently.

Chloride Conversion Reaction

Once the sample has been prepared, the remaining chloride conversion steps are the same for all sample types. The conversion step is a reaction of the sample with an excess of metallic sodium in the presence of a catalyst to convert the covalently bound organic chlorine into free chloride ions. This reaction of metallic sodium with organo-chlorine compounds is vigorous and goes to completion converting all of the organic chlorine to chloride.

Quantification

Upon the completion of the conversion reaction, the resulting chloride ions are extracted into an aqueous buffer. The chloride content in the final extract/buffer is thenquantified using a chloride specific electrode and converted to an equivalent analyte concentration using the conversion factors programed into the

analysis method of the instrument. The conversion factor is made up of the percent chlorine, the sample size multiplier, and the extraction efficiency multiplier. The analyte concentration is determined by first subtracting the blank from the raw chloride reading (except when the Blank Subtraction has been turned off), and the resulting corrected chloride value is multiplied by the size and extraction multipliers and divided by the chloride fraction (percent chlorine divided by 100):

$$[\text{Analyte}] = ([Cl^-]_{raw} - [Cl^-]_{blank})(\text{size multiplier})(\text{extraction multiplier})/(\text{chlorine fraction})$$

The L2000DX analyzer comes preprogramed with 28 methods providing for analysis of a large number of chloride compounds in most matrices. Correction factors are preprogramed to account for all of the steps necessary to run samples using the standard prepackaged reagents. If the procedures are modified or other analytes are expected, up to 22 custom methods can easily be built.

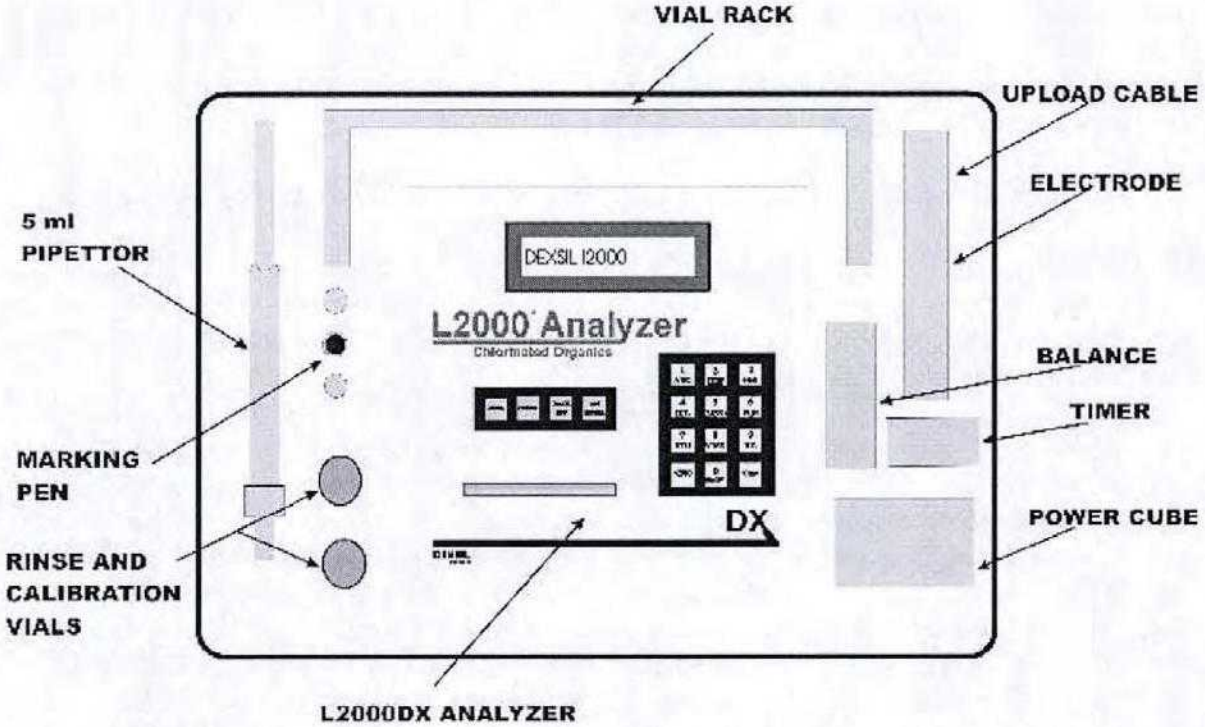
The operational program of the L2000DX has been designed to provide the most versatile data reduction platform possible for the analysis of chlorinated organic compounds in a variety of matrices. At the same time, the program is easy to use for routine analysis and does not require custom method development. The operating program is divided into an **Analysis Loop** and the **OPTIONS Menu**. Preprogramed methods are available for use in routine analyses and are easily selected from within the **Analysis Loop**. The software automatically cycles back to critical points in the analysis loop to prompt the user for **"Calibration"**, **"Blank Subtraction"** and **"Sample ID"** inputs. Measurements can be initiated without requiring any additional programing by simply choosing the **Method** and following the on-screen instructions,. Custom methods can be constructed by selecting the **OPTIONS Menu** and modifying existing methods or creating a new method (see**Creating and Editing a Method**).

Unpacking

The L2000DX is shipped in its own carrying case, complete with all the hardware necessary for operation. Upon receiving the L2000DX Analyzer, please verify that all of the items listed below are present and in good working order.

The carrying case for the L2000DX Analyzer should contain the following items:

L2000DX Electronic PCB/Chloride Analyzer
Power cube AC-DC transformer
PC Upload Cable
Portable electronic balance & 100 gm Calibration weight
5 mL pipettor
Vial rack
Timer
Marking pen
Two empty 20 mL glass vials for RINSE and CALIBRATION solutions
L2000DX Data Manager Software CD
Instruction Manual, Certificate of Calibration and MSDS



In addition to the aforementioned items in the carrying case, the following should be included in the same outer shipping box:

Chloride-ion specific electrode[1]
Packet of polishing strips[1]
Test tube rack

To prevent damage to the instrument in the case of a leak, the sample preparation reagents are shipped separately. The exact makeup of the reagent pack will depend on the specific reagent option chosen at the time of ordering. The options available for the L2000DX and the components contained in each are the following:

Option 1: Reagents for 40 Oil Tests

1 - 250 mL bottle of EXTRACT solution
1 - 250 mL bottle of RINSE solution
1 - 250 mL bottle of CALIBRATION solution
1 - 60 mL bottle of Electrode Filling Solution
1 - tray of 40 empty 20 mL glass vials
1 - box of tissue wipes
1 - **shelf-pack** containing (in a heat sealed foil bag):

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[1] These items are shipped in their original packaging from Orion. Once they have been unpacked, they should be carried in the above-labeled slot in the carrying case.

40 - filters
40 - pipettes
40 - reaction tubes (black dispenser caps)

Reorder Part No: (LP-ORK)

Option 2: Reagents for 20 Soil Tests (Standard Procedure)

1 - 250 mL bottle of EXTRACT solution
1 - 250 mL bottle of RINSE solution
1 - 250 mL bottle of CALIBRATION solution
1 - 60 mL bottle of Electrode Filling Solution
1 - box of tissue wipes
1 - **40-cell box** containing:
    20 - empty 20 mL glass vials
    20 - bottles containing Soil Extraction Solvent
1 - **shelf-pack** containing (in a heat sealed foil bag):
    20 - filters
    20 - pipettes
    20 - reaction tubes (black dispenser caps)
    20 - metal scoops for obtaining soil samples
    20 - 10 mL plastic syringes
    20 - drying columns (foil packed)
    20 - empty test tubes with white caps

Reorder Part No: (LP-SRK)

Option 2a: Reagents for 20 Soil Tests (Two-Step Extraction Procedure)

1 - 250 mL bottle of EXTRACT solution
1 - 250 mL bottle of RINSE solution
1 - 250 mL bottle of CALIBRATION solution
1 - 60 mL bottle of Electrode Filling Solution
1 - box of tissue wipes
1 - set of instructions
1 - **40-cell box** containing:
    20 - empty 20 mL glass vials
    20 - 6 mL black-capped water vials
1 - **shelf-pack** containing (in a heat sealed foil bag):
    20 - empty 25 mL soil tubes
    20 - filter funnels
    20 - pipettes
    20 - reaction tubes with black dispenser caps
    20 - break-top vials containing Soil Extraction Solvent
    20 - metal scoops for obtaining soil samples
    20 - syringe filters (in a heat sealed foil bag)
1 - set of instructions

Reorder Part No: (LP-SR2)

Option 3: Reagents for 20 Water Tests

1 - 250 mL bottle of EXTRACT solution
1 - 250 mL bottle of RINSE solution
1 - 250 mL bottle of CALIBRATION solution
1 - 60 mL bottle of Electrode Filling Solution
1 - box of laboratory wipes
1 - **40-cell box** containing:
    20 - empty 20 mL glass vials
    20 - bottles of Isooctane
1 - **shelf-pack** containing (in a heat sealed foil bag):
    20 - filters
    20 - pipettes
    20 - reaction tubes (black dispenser caps)
    20 empty test tubes with white caps
1 - set of instructions

Reorder Part No: (LP-WTR)

Option 4: Reagents for 20 Wipe Tests

1 - 250 mL bottle of EXTRACT solution
1 - 250 mL bottle of RINSE solution
1 - 250 mL bottle of CALIBRATION solution
1 - 60 mL bottle of Electrode Filling Solution
1 - box of tissue wipes
2 - pair of safety goggles (1 pair/10 tests)
2 - pair of neoprene gloves (1 pair/10 tests)
1 - **shelf-pack** containing (in a heat sealed foil bag):
    20 - filters
    20 - pipettes
    20 - reaction tubes (black dispenser caps)
    20 - hexane ampules
    20 - empty test tubes with white dispensing caps
1 - **box** containing:
    20 - gauze pads in 20 mL glass vials
    20 - 10 mL glass bottles containing Extraction Solvent (isooctane)
1 - **box** containing:
    20 - empty 20 mL glass vials
    20 - forceps
1 - set of instructions

Reorder Part No: (LP-WIP)

NOTE: DO NOT STORE REAGENTS IN THE INSTRUMENT CARRYING CASE, AS ANY LEAKS WILL DAMAGE THE INSTRUMENT.

Initial Set Up

Once the L2000DX has been unpacked, the components checked and the contents of the reagent pack verified, the L2000DX can be set up for analysis. Locate the vial rack, the two empty 20 mL vials and the bottles of RINSE and CALIBRATION solutions. Remove the caps from both vials and label one 20 mL vial "RINSE" and the other "CAL". Fill each vial approximately ½ full with the appropriate solution and set in vial rack. (NOTE: It is helpful to label the rack with the location of the RINSE and CAL vials.) These solutions will be used for the initial setup and calibration of the electrode. They will also be used periodically to re-calibrate the electrode and check the electrode output. Once set up, the electrode should remain in the RINSE solution when not in use.

Prior to running the Analyzer on battery power, it should be charged overnight using the power cube supplied with the instrument. The Analyzer can be operated from line power while the battery is charging and should be left plugged in whenever AC power is available. Turn on the Analyzer by pressing and holding the <ENTER/ON> key until the printer advances one line and the display reads:

Dexsil L2000DX
Version X.XX

This screen is the **First Screen** in the operating program. The Analyzer is ready to accept instructions.

Restoring the Electrode After Extended Storage

The electrode is shipped empty and should be stored empty whenever it will be left for an extended period of time (see **Electrode Care and Maintenance**). To restore the electrode to operating condition:

1. Remove protective cap from the tip of the electrode.

2. Fill the electrode, up to the filling hole in the side, with the Orion Electrode Filling Solution supplied with each lot of reagents. To fill, place the nozzle of the fill solution bottle into the hole on the side of the plastic body and gently squeeze the fill bottle.

3. Drain the electrode, while holding it upright over the waste beaker, by grasping the body of the electrode firmly in one hand and pushing down on the black cap where the cord enters the electrode. The filling solution will drain out of the bottom of the electrode.

4. Refill the electrode and make sure that the fill solution is making contact between the black cone and the plastic shell at the bottom of the electrode. If it is not making contact at all points, drain the electrode again and refill.

5. Connect the electrode to the BNC connector labeled "ELECTRODE" on the back of the L2000DX Analyzer and check electrode output.

6. To check the electrode, turn the Analyzer on by pressing and holding the <ENTER/ON> key until the printer advances one line and the display screen activates. Select the **OPTIONS Menu** from the **First Screen** by the pressing <OPTION> key. At the **OPTIONS Menu**, go to "***DIAGNOSTICS***" by pressing the <6> key. This display:

   DIAGNOSTICS X.X
   XXX.X mV XX.X °C

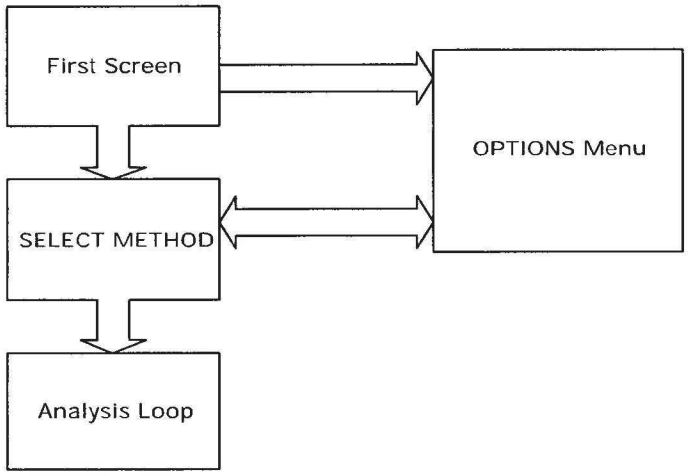
   will indicate the current temperature and then continuously update the electrode output in millivolts (mV). Place the electrode in fresh RINSE solution, gently swirl the solution with the electrode and allow to sit. The electrode output should reach 140 mV or greater within 1 minute. If the electrode output does not reach at least 140 mV, empty the RINSE solution and refill with fresh RINSE solution. If this does not improve the electrode output, drain the electrode, refill it with filling solution and check the output again. Once the output is greater than 140 mV, the electrode is functioning correctly and it is safe to proceed with measurements. If the electrode output does not reach 140 mV, see under **Trouble Shooting** for remedies. NOTE: The update rate for the "***DIAGNOSTICS***" display is 6 seconds, any keys pressed will not register until the end of the current measurement cycle.

Basic Operation of the L2000DX

General Information

The L2000DX meter is equipped with an internal gel cell battery and can be operated with or without the wall adaptor. A fully charged battery should be sufficient to operate for 3 full 8-hour days of sample analyses, printing each data point. To conserve battery power, the printer can be turned off and the stored data printed or uploaded at a later time. To preserve the battery, the unit should be plugged into an AC outlet whenever possible.

The operation of the L2000DX is controlled by a program organized into a series of "screens". A screen prompts the user for appropriate input or displays output from the processor. There are two screens at the beginning of the program that will be referred to throughout the text. They are, the **First Screen** which appears when the analyzer is turned on and is returned to when turning the meter off manually, and the **SELECT METHOD Screen** which is the next screen in sequence. From the **SELECT METHOD Screen** the desired analytical method is chosen prior to analysis. From this screen the program enters a series of screens that step the user through the analysis of prepared samples. This series includes the calibration steps and blank determination and will loop back for periodic re-calibration as necessary. This section of the program is referred to the **Analysis Loop**. (See below for a block diagram of the program..)



Once in the **Analysis Loop**, the analyzer must be calibrated. The calibration procedure is a single point calibration using a 50 ppm chloride CALIBRATION standard supplied with each batchof reagents. This calibration must be repeated approximately every 20 measurements or one hour, whichever comes first. A timer, a counter, and a thermistor have been built into the instrument to prompt the user for recalibration when necessary. During the calibration procedure, the function of the electrode will also be evaluated. If the electrode potential for the calibration solution is not within the acceptable limits, a warning will be displayed and the program will jump to the diagnostics mode. (See below under ***DIAGNOSTICS*** .)

All other functions of the program are accessed by pressing the <OPTION> key from the **First Screen** or the **SELECT METHOD Screen**. This section of the program is referred to in the manual as the **OPTIONS Menu**. Although only one choice can be displayed at a time, options are organized into a sequence of choices, functioning much the same as a menu typical of most computer programs.

Turning the Analyzer On and Navigating the Operating Program

Pressing and holding the <ENTER/ON> key until the printer advances one line and the display activates will turn the Analyzer on and the program will be in the **First Screen**. In the **First Screen** the display will read:

Dexsil L2000DX
Version X.XX

indicating the current software version running on the L2000DX. The version number should match the version number indicated on the cover of this manual.

From the **First Screen** pressing the <ENTER/ON> key will move the program to the **SELECT METHOD Screen**. In the **SELECT METHOD Screen:**

SELECT METHOD
method id

pressing the <<NO> and <YES>> keys will scroll through the stored methods. When the desired method is displayed, pressing the <ENTER/ON> key will select it. The program will then enter the **Analysis Loop** and the program will begin prompting one through the operations necessary to begin the analysis of samples using the chosen method.

Calibration

The first step required before any measurements can be made is to calibrate the instrument.
The L2000DX operating program will jump to the **CALIBRATION** screen when a new method is selected, when the temperature has changed by more than 5°C, or when the recalibration timer is triggered. The display will read:

CALIBRATION FOR
method name

indicating the method that is currently selected. Press the <ENTER/ON> or <YES>> keys and the display will indicate that the electrode should be placed in clean fresh CALIBRATION solution:

IS CALIBRATION

SOLUTION READY

Remove the electrode from the RINSE solution, gently wipe the body of the electrode with a clean wipe and insert the tip into the CALIBRATION solution. NOTE: DO NOT WIPE THE TIP OF THE ELECTRODE AS THIS MAY DAMAGE IT. Swirl the electrode gently a few times and press the <ENTER/ON> or <YES>> key. Allow the electrode to remain in the calibration solution, the meter will briefly display the message:

MEASUREMENT IN
PROGRESS

Provided the electrode output is within the acceptable range and the ambient temperature is also within the acceptable range, the calibration procedure is complete when the program display briefly:

CAL TEMP = XX °C
mv = xx

The calibration results will also be sent to the printer, if the printer has been turned on.

Calibration:	***hh:mm mm/dd/yyyy***
Version:	***xxxx***
Method:	***METHOD NAME***
mV = ***xx.x***	Temp. = ***xx.x °C***
A = ***xxx.x***	B = ***xx.xxx***
Offset = ***x.x***	

The program function will then move to the next step in the chosen method. If the temperature is outside the acceptable range the following error message will be displayed:

Temperature
Error xx.x °C

A temperature error indicates that the ambient conditions are not suitable for measurement. Save all extracts and move to a location where the temperature is within the acceptable range.

If the electrode output is outside the acceptable range, an error will be displayed:

CAL ERROR
mV = xx

Pressing the <ENTER/ON> key will move the program back to the beginning of the **Analysis Loop**. (See "CAL ERROR" in **Error Messages** under **Trouble Shooting**)

Blank Determination

All of the pre-programed methods have the option of subtracting a reagent blank built into the method. If blank subtraction has been enabled in the chosen method, this option will be presented after each calibration. The option will be presented as:

USE BLANK
YES/NO

If NO is chosen, the program moves on to the next step in the method as described below in **Analysis**. If YES is chosen, the option will be presented:

USE PREVIOUS
BLANK YES/NO

If YES is chosen, an opportunity will be presented to change the stored blank or to enter a fixed value at:

USING BLANK OF
0.00

This number, in ppm chloride, can be edited or accepted, as is, by pressing the <ENTER/ON> key. The program then continues to the next step as described below under **Analysis**.

If NO is chosen, the screen will prompt for the blank solution:

PUT PROBE INTO
BLANK <ENTER>

The blank solution must be prepared as a sample would be, using all of the sample preparation steps and reagents but without an actual sample.[2] After reaction the blank must be allowed to reach room temperature as described below. Insert the electrode into the solution, swirl gently for a few seconds and allow to sit. With the electrode in the solution, press the <ENTER/ON> or <YES>> key. After the measurement has been made, the blank result will be displayed as:

BLANK READING
01.2

After pressing the <ENTER/ON> key, the program will continue to the next step in the analysis as

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[2] When preparing a blank using the Standard Soil Extraction Solvent, DO NOT add any of the water from the bottom of the solvent vial.

described below. A measured blank cannot be edited. Only stored blank values can be edited.

Analysis

Prepare samples for analysis as described under **Sample Preparation**. Once the samples have been prepared, choose the appropriate analysis method and calibrate the meter. The program will display instructions as determined by the chosen method.

1. Make sure that the method has been selected, the instrument has been recently calibrated (including any blank determinations) and that the analysis solutions have been allowed to temperature equilibrate for at least 5 minutes. The display should read:

   ANALYZE SAMPLE
   method name

   Press the <ENTER/ON> key to continue to the screen:

   SAMPLE ID (save)
   sample id

   If the sample ID is correct, proceed to the next step. Otherwise change the ID as described under **Entering Data**. The indication "save" will appear in this screen if the option to save data points as they are taken has been selected (See **Data Management**).

2. Remove the electrode from the rinse solution and wipe the body carefully with a tissue. NOTE: DO NOT WIPE THE TIP OF THE ELECTRODE AS THIS MAY DAMAGE IT. Place the electrode in the vial to be analyzed and swirl it gently for several seconds.

3. Press the <ENTER/ON> key. The L2000DX will take a series of readings. Once the readings have converged on a constant value, the result will be displayed along with crucial method information. A beeper will sound to indicate that the new value is ready.

4. To analyze additional samples, press the <ENTER/ON> key. The program will check the ambient temperature and, if it is still within the allowable range, the program will cycle back to begin the next analysis. Proceed as in step 1 above to make the next measurement.

5. Samples may be saved for analysis at a later time, but the vials should be tightly capped. Once they have been read, samples should be discarded. Do **not** re-analyze samples.

6. Pipettes and oil should be disposed of as PCB/Organo-chlorine waste. Analysis solution can be disposed of as ordinary aqueous waste containing nickel.

Entering Data

All user input to the L2000DX Analyzer is through the 16 key keypad on the front panel. There are 12 alpha-numeric keys and 4 function keys. Audible feedback is provided, on all keys, to indicate that a key press has been registered by the processor. Data is entered using the alpha-numeric keys. These keys are active only when an input is required and will be acted on only when they are appropriate for the active screen.

When numeric input is required, only the numbers indicated on the keys will be registered. To change an entered number, use the arrow keys to move the cursor to the desired location and press the correct number key. To input letters in a text string, such as in a method name or sample ID, both an alpha-numeric key and the ALPHA key must be pressed. When an alpha-numeric key is pressed, the number associated with that key will be displayed first. The ALPHA key is then pressed once, twice, or three times to change the character to the desired letter. Continued ALPHA key presses will "scroll" the characters through the letters and the number shown on the face of the key. For example: Pressing the <7> key will first cause the "7" to be displayed. The cursor will move to the next space and, if the ALPHA key is pressed next, the "7" changes first to an "S", then a "T", followed by a "U". (Pressing the< ALPHA> key again will cycle the character back to the "7".) Once the desired character is displayed, pressing an alpha-numeric key will enter the next character, above the cursor.

Having a sample ID that includes a number automatically incrementing with each successive sample, will make assigning a unique sample ID much easier. This is accomplished by using "wildcards" in the sample ID. There are two "wildcard" characters that can be used. These are the "*" and the "?". They function much the same as their DOS equivalents. Entering an "*" in a sample ID will add an automatically sequencing number to the sample ID. The number begins at 00001 and increments up to 99999. (If less than 5 spaces are left in the sample ID then the number is limited to the number of digits left.) The "?" has the same function as the "*" but the appended number will only have the number of digits as question marks entered. NOTE: Editing a sample ID with a "wildcard" will freeze the number at the current value and eliminate the wildcard function.

Special Keys

The <NO and YES> keys function as either a yes/no response or as arrow keys to move the cursor through a text entry.

The four special function keys, ALPHA, OPTION, BACK/OFF and ENTER/ON are used to direct the operation of the program. The ALPHA key is used to input letters in a text string. The OPTION key, from the first or second screen, will transfer program operation to the **OPTIONS Menu**. From the **RESULT Screen** in the **Analysis Loop**, the OPTION key is used to view the chosen parameters of the currently active "Method". The BACK/OFF key is used to exit from any section of the program, back through successive screens to the **First Screen** and, ultimately, to turn the meter off. The ENTER/ON key will turn the instrument on and is used to enter any options chosen or to step forward in the program.

Electrode Check

The electrode is the most important component in the system. It is, therefore, important that the electrode be properly maintained and the initial setup will determine how well the electrode is functioning. Before turning the L2000DX analyzer on, insure that the electrode is properly connected to the back of the unit. Check the fill level in the electrode and, if necessary, refill the electrode with the Orion filling solution supplied with each lot of reagents. To fill the electrode, insert the tip of the filling spout of the filling solution bottle into the hole on the side of the electrode. Slowly squeeze the solution into the electrode body until it reaches the level of the hole.

Once the electrode has been filled, check the electrode output by going to '***Diagnostics***" from the **OPTIONS Menu.** Rinse and refill the RINSE vial with fresh rinse solution and swirl the electrode in the solution gently for a few seconds. Allowing the electrode to sit in the rinse solution, verify that the mV reading is greater than 140 mV. If the output does not reach at least 140 mV within a minute, refill the RINSE vial with fresh solution and recheck the output. If this does not improve the output, refill the electrode with fresh fill solution. (See **Electrode Care and Maintenance**).

Sample Preparation

Oil Samples

Before a transformer oil sample can be analyzed with the L2000DX, the PCB/Chlorinated Organics must be chemically converted to chloride.

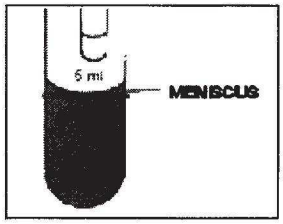


Figure 2

1. Remove the cap from a black-capped tube and add oil up to the 5 mL line using a polyethylene pipettor (See Figure 2). Replace the cap tightly on the tube.

2. Break the bottom (colorless) ampule in the tube. Shake the tube well for 10 seconds.

3. Break the top (gray) ampule in the tube. Shake the tube vigorously for 10 seconds Allow the reaction to proceed for additional 50 seconds (total of one minute), while shaking intermittently several times.

4. Using the 5 mL pipette, add five milliliters of extract solution to the back-capped tube. Tighten the cap securely and shake vigorously until the foam and dark color disappear. Vent the tube by partially unscrewing the black cap while holding the tube upright. Squeeze the test tube slightly while re-tightening the cap, and shake the tube vigorously for 20 seconds more. Vent again, tighten cap and stand the tube upside-down on the flat top of the cap and allow to settle for two minutes.

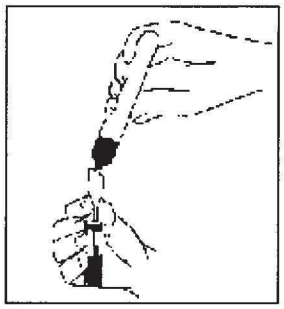


Figure 3

5. Place a polyethylene filter funnel in one of the 20 mL glass vials marked with the sample number. Position the black-capped test tube directly over the top of the funnel and open the dispenser nozzle (See Figure 3). Dispense the solution by carefully squeezing the sides of the tube. Stop as soon as the first drop of oil appears. Allow the solution to pass through the funnel, but remove the funnel before any oil can get through. Allow the solution to cool for five minutes. The sample is now ready for analysis.

Soil Samples

To analyze a soil sample for PCB/Chlorinated Organics, the analyte must first be extracted from the sample. There are two solvent extraction systems available. Depending on the specific application, either the standard extraction solvent or the two-step procedure will be most appropriate. Both systems provide good, reproducible recoveries on dry sandy loam type soils. The standard procedure is somewhat faster and has fewer steps, but should not be used on wet or heavy clay soils. Regardless of the solvent system used, it is important that split samples be periodically analyzed by a reputable laboratory, not only to identify/confirm the Aroclor present, but also to confirm the extraction efficiency of the L2000DX solvent system. Contact Dexsil before trying to analyze other types of materials. NOTE: The quality of the final result is directly determined by sampling technique. It is, therefore, important to use proper protocols for sample collection and homogenization.

Standard Procedure for Soil Analysis

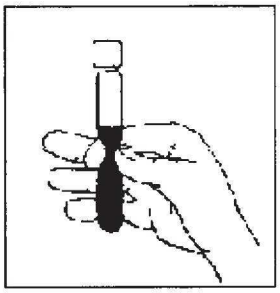


Figure 4

1. Using the metal spatula and the portable electronic balance supplied with the kit, weigh out ten grams of the soil into the empty, white-capped test tube. NOTE: Be careful not to get any foreign material into the weighed sample, i.e., absorbent material, large rocks, etc. The empty tube can be tared by placing it on the balance and pressing the <ON/OFF/ZERO> key.

2. Remove the black cap from the glass vial containing the extraction solvent and pour the entire contents of the vial into the tube containing the soil. Replace the white cap on the plastic test tube tightly and shake the tube vigorously for one minute. Break up any lumps of soil by squeezing the sides of the test tube during the shaking process (See Figure 4). Allow the tube to settle upright for two minutes.

3. Remove the drying column from its foil pouch by poking the pointed end of the column through the foil and remove the red end-cap. Pull the plunger completely out of the 10cc syringe. Attach the end of the blue drying column to the tip of the syringe by sliding it over the collar on the tip of the syringe. This is a tight fit and the drying column may have to be carefully worked onto the syringe. Make sure that it is seated tightly.

4. Remove the black dispensing cap from the plastic test tube that contains two glass ampules. Slide the syringe-drying column assembly part of the way into the test tube which contains the two ampules. Stand the whole assembly upright. Using the polyethylene pipette, remove the extraction solvent from on top of the soil and dispense it into the top of the open syringe barrel. You will need to recover enough extraction solvent to fill the syringe barrel to the 7 mL level. Try not to remove any soil with the solvent as this may clog up the drying column. After 7 mL of solvent has been dispensed into the syringe, replace the plunger into the back of the syringe and apply pressure so that the solvent is forced through the drying column at the rate of 2 or 3 drops per second. (NOTE: Do not force the solvent through the drying column too fast.) When the dried solvent fills the test tube to the 5 mL line, pull back on the plunger to stop the flow of solvent. Remove the syringe-drying column assembly from the test tube, and screw the black dispensing cap tightly onto the test tube.

5. Break the bottom (colorless) ampule in the test tube by squeezing the sides of the tube and shake the mixture well for 10 seconds. Break the top (gray) ampule in the test tube and shake the tube vigorously for 10 seconds. Allow the reaction to proceed for additional 50 seconds (total of one minute), while shaking intermittently several times.

6. Using the 5 mL pipettor, add five milliliters of extract solution to the back-capped tube. Tighten the cap securely and shake vigorously until the foam and dark color disappear. Vent the tube by partially unscrewing the black cap while holding the tube upright. Squeeze the test tube slightly while re-tightening the cap, and shake the tube vigorously for 20 seconds more. Vent again, tighten cap and stand the tube upside-down on the flat top of the cap and allow to settle for two minutes.

7. Place a polyethylene filter funnel in one of the 20 mL glass vials marked with the sample number. Position the black-capped test tube directly over the top of the funnel and open the dispenser nozzle. (See Figure 3) Dispense the solution by carefully squeezing the sides of the tube. Stop as soon as the first drop of the organic solvent appears. Allow the solution to pass through the funnel, but remove the funnel before any oil can get through. Allow the solution to cool for five minutes. The sample is now ready for analysis.

Two-Step Procedure for Soil Analysis:

1. Using the metal spatula and the portable electronic balance supplied with the kit, weigh out ten grams of the soil into the empty, white-capped test tube. NOTE: Be careful not to get any foreign material into the weighed sample, i.e. absorbent material, large rocks, etc. The empty tube can be tared by placing it on the balance and pressing the <ON/OFF/ZERO> key.

2. Add the contents of one break-top glass solvent vial to the test tube of soil sample. Replace the cap tightly on the tube and shake contents for 3 minutes making sure the entire soil sample is thoroughly wetted.

3. Add the colored water component contained in the 6 ml black-capped vial to the test tube. Recap tightly and shake for an additional 2 minutes.

4. Allow the mixture to separate for 2 minutes.

5. Remove the plunger from a syringe/filter unit in the foil package and remove the black-dispensing cap from the reaction test tube and stand it in the rack.

6. Remove the top layer from the soil test tube (solvent layer) using the polypropylene pipette provided and while holding the syringe/filter over the reaction tube, add 7 ml to the syringe/filter.

7. Add solvent from the syringe/filter up to the 5 ml line of the black-capped test tube. Replace the cap tightly on the tube.

8. Break the bottom (colorless) ampule in the black-capped test tube by squeezing the sides of the tube and shake the mixture for 10 seconds.

9. Break the top (gray) ampule in the test tube and shake the tube vigorously for 10 seconds. Allow the reaction to proceed for an additional 40 seconds (total of one minute), while shaking intermittently several times.

10. Using the 5 milliliter pipettor from the basic L2000 system, add 5 ml of the L2000 Extraction solution to the black-capped tube. Tighten the cap securely and shake the tube vigorously until the foam and dark color disappears. Vent the tube by partially unscrewing the cap while holding the tube upright. Squeeze the test tube slightly while retightening the cap and shake a second time. Vent again, retighten cap and stand the tube upside-down on the flat top of the cap and allow to settle for two minutes.

11. Place a filter funnel in one of the 20 ml glass vials marked with a sample number. Position the black-capped test tube directly over the top of the funnel and open the dispenser nozzle. Dispense the solution by carefully squeezing the sides of the tube. Allow the solution to pass thorough the funnel, but remove the funnel before any oil can get through. Allow the filtered solution to cool for five minutes. The sample is now ready for analysis with the L2000 Analyzer.

Water Samples

High Range (5-2000 ppm)

1. Fill sample tube with 10 grams of water sample.

2. Add 10 mL of isooctane extraction solvent and shake vigorously for 30 seconds.

3. Allow to separate into two phases for a minimum of 2 minutes. (If a emulsion forms, add sodium sulfate*, shake and allow to separate again). Using the disposable plastic pipette remove 5 mL of the top solvent layer and add to the black capped reaction tube.
(*available from major chemical suppliers).

4. Proceed with test as for an oil sample and quantify using the appropriate LX2000DX method.

Low Range (20 ppb - 5 ppm)

1. Collect sample in 1 quart narrow mouth glass bottle with zero head space. Cap tightly and store on ice until analysis.

2. When ready to analyze the sample, invert sample container gently once or twice and, using a plastic pipette, remove 35 mL of water from the sample jar by weighing 35 grams of water into a tared waste container and discard. Then add 10 mL of isooctane to sample container and shake vigorously for 2 minutes.

3. Add sufficient chlorine free distilled water to bring the water level up into the neck of the sample bottle (the solvent level should be just shy of the top of the neck) and allow to set for 3 minutes.

4. Withdraw 5 mL of the upper solvent layer (**Do Not Remove Any Water With the Solvent**), add to the black capped reaction tube and cap tube tightly.

5. Proceed with the analysis as for an oil sample and quantify using the appropriate L2000DX method.

Wipe Samples

1. Locate the sealed glass vials containing chromatographic grade hexane and carefully break off the tip. Pour the entire contents into the vial containing the gauze pad. Grasp the soaked gauze pad with the disposable forceps and using an approved technique, wipe an area of 1000 cm^2.

1000 cm^2 is equivalent to a square measuring 31.6 cm or 12.5 inches on each side. It is equal to 1.08 ft^2. Allow the hexane to evaporate from the wiping material (approximately 1 minute).

2. Being careful not to contaminate the wipe, place it as loosely as possible into the tube with the white dispenser cap. Pour the extraction fluid, (10 mL of isooctane), into the white-capped tube. Tighten the cap and solvate the gauze thoroughly for 30 seconds. Squeeze the tube to make sure that the isooctane completely washes the gauze. This solvent now contains all the PCBs that were removed during the wiping procedure.

3. Remove the black dispenser cap from one of the reaction tubes. Open the spout on the white dispenser-capped test tube and dispense the isooctane extract into the black-capped tube up to the 5 mL line. Replace the cap tightly on the tube.

4. Break the bottom (colorless) ampule in the tube. Shake the tube well for 10 seconds.

5. Break the top (gray) ampule in the tube. Shake the tube vigorously for 10 seconds Allow the reaction to proceed for additional 50 seconds (total of one minute), while shaking intermittently several times.

6. Using the 5 mL pipette, add five milliliters of extract solution to the back-capped tube. Tighten the cap securely and shake vigorously until the foam and dark color disappear. Vent the tube by partially unscrewing the black cap while holding the tube upright. Squeeze the test tube slightly while re-tightening the cap, and shake the tube vigorously for 20 seconds more. Vent again, tighten cap and stand the tube upside-down on the flat top of the cap and allow to settle for two minutes.

7. Place a polyethylene filter funnel in one of the 20 mL glass vials marked with the sample number. Position the black-capped test tube directly over the top of the funnel and open the dispenser nozzle (See Figure 3). Dispense the solution by carefully squeezing the sides of the tube. Stop as soon as the first drop of oil appears. Allow the solution to pass through the funnel, but remove the funnel before any oil can get through. Allow the solution to cool for five minutes. The sample is now ready for analysis.

The OPTIONS Menu

Except for the **Analysis Loop**, all program functions of the L2000DX are accessed through the **OPTIONS Menu**. The options available are:

1) METHOD - CREATE/EDIT
2) HEADER INFORMATION
3) DATA MANAGEMENT
4) PRINTER OPTIONS
5) TIME AND DATE
6) DIAGNOSTICS
7) PC UPLOAD
8) SET TEMP

The **OPTIONS Menu** is entered by pressing the <OPTION> key at the **First Screen** or the **SELECT METHOD Screen**. Once in the **OPTIONS Menu**, each option will be displayed for 3 seconds and they will continually loop for 3 minutes or until an option is chosen. An option is chosen by pressing the appropriate number for the desired option.

I.) Creating and Editing a Method

The key to the utility of the L2000DX analyzer is the versatility of the methods that can be developed for the instrument. A "method" is the complete set of parameters that are necessary to convert a chloride reading into an accurate quantification of the targeted analyte. Preprogramed in the meter are a number of methods for the analysis of many common environmental contaminants. These methods can be modified and custom methods can be built by setting any of the conversion parameters used to convert the chloride reading into an equivalent analyte concentration.

Each method requires 8 parameters to be set. These parameters are determined by the composition of the sample and the chemistry of the sample preparation and/or extraction procedures used to introduce the sample into the system. They can be either calculated from known parameters or determined empirically from preliminary experiments. The parameters common to all methods and their allowable ranges are tabulated below.

Parameter	Range of Values
Blank Subtraction	yes/no
Chlorine Content	10 - 99.9
Sample Size Correction	0.01 - 99.9
Extraction Efficiency Correction	0.01 - 99.9
Matrix	Oil, Soil, Water, Wipe
Units to be Displayed	ppm, mg/kg/ ppb, ug/sdm
Analyte Label	16 character alpha-numeric
Method Name	16 character alpha-numeric

To create a new method or edit an existing method choose 1) "**METHOD CREATE/EDIT**" from the **OPTIONS Menu**. Then choose either 1) "**EDIT METHOD**" to edit an existing method or 2) "**CREATE NEW**" to create an entirely new method. Choosing 2) "**CREATE NEW**" will begin the parameter selection for the new method directly. If 1) "**EDIT METHOD**" is chosen, the next screen will be:

CHOOSE METHOD : x
method names

to choose the method to edit. The existing method names can be viewed by pressing the << NO> key to scroll backward or <YES> > key to scroll forward. Once the desired method is displayed pressing the <ENTER/ON> key will select the method and the choice will be given to either:

1) MODIFY METHOD
2) DELETE METHOD

Choosing 2) "**DELETE METHOD**" will delete the chosen method. This is the only way to delete unwanted methods. (NOTE: Preprogramed methods cannot be deleted. Only user created methods can be deleted.) Choosing 1) MODIFY METHOD will begin the method parameter editing. After this screen, whether editing or creating a method, the steps are the same.

Blank Subtraction

The first parameter that will be displayed will be:

BLANK SUBTRACT
YES OR NO

Enabling blank subtraction allows for the subtraction of a reagent blank, if any, from the raw chloride

measurement before the final result is displayed. When blank subtract is on, the analyst will be prompted to either measure a blank, use a previous blank or input a blank value to be used. During the analysis of unknowns, if a blank is subtracted, the results will be displayed with a "B" in the upper right corner of the display.

Chlorine Content

The next parameter that can be input is the chlorine content of the target analyte.

```
% CHLORINE XX.X
99.9%
```

Input as a percentage, this parameter is used to convert the total chloride reading into an equivalent analyte concentration prior to the display of the result.

Size Correction

The size correction is used to adjust the results for the sample size used for a particular analysis. The assumed sample size is 5 grams of a liquid sample, 10 grams for a soil sample and 1000 cm^2 for wipe samples. The correction would be calculated from the ratio of the expected sample size to the actual sample size. For example, if a 5 gram sample is used for soil analysis, the correction would be 10/5 or 2. NOTE: In the analysis of transformer oil, the sample is typically taken volumetrically, therefore, a correction for the density of the oil is incorporated into all pre-programed Oil Methods. The density of a typical dielectric fluid used in transformers, Diala-A, is 0.8833 g/cc. The size multiplier, built into each Oil Method, is then 1/0.8833 = 1.13. This allows the results to be displayed as ppm or mg/kg. The size correction screen is:

```
SIZE MULTIPLIER
1.13
```

Extraction Efficiency Correction

Because there are one or more extractions involved in the preparation of samples for measurement, a correction for extraction efficiency has been provided for in the method parameters in the screen:

```
EXTRACTION MULT
1.11
```

The correction is entered as a multiplier applied to the final result. For example the recovery of chloride ions from the organic phase in the final extraction of oil samples is 90%. For oil samples, this is the only extraction step, therefore, the correction multiplier would then be 1/0.90 or 1.11. The typical extraction efficiency for the recovery of organics from soil samples is 80%. Combined with a chloride recovery of 90% the overall extraction correction is (1/(0.80 x 0.90)) or 1.39.

Matrix

The matrix label for sample type appears in the header information and indicates what type of sample was analyzed. The available labels are:

1)OIL 2)SOIL
3)WATER 4)WIPE

To choose the matrix label enter the number of the matrix option and press the <ENTER/ON key. NOTE: This is a label only. Choosing a matrix does not set any of the numeric conversion factors. They must be set separately.

Units

The units variable in a particular method development is simply the text that appears associated with the displayed, printed or stored result. To choose a label, press the number for the desired units. The available labels are:

1)PPM 2)MG/KG
3)PPB 4)ug/sdm

Any of the units can be combined with any of the matrices chosen, however, ug/sdm is only meaningful for wipe samples. The units "ug/sdm" is shorthand notation for **m**icrograms per **s**quare **d**ecimeter which is equivalent to micrograms per 100 square centimeters, i.e., ug/sdm = ug/100scm.

Analyte Label

The analyte label is a 16 character label that will appear on the display indicating the analyte equivalent concentration, assuming that all organic chlorine detected in the sample were that analyte. The entry screen appears as:

ANALYTE LABEL
analyte label

This label can be left blank, however, something should be entered as this is the only way to identify the expected analyte when the final analytical result is displayed.

Method Name

After all of the method variables have been selected, the user will be prompted for the name under which the method will be stored in memory:

METHOD NAME
method name

There must be a unique name associated with each method. A method name consisting of all blanks is not allowed for this option. If an existing method name is entered, the prompt:

EXISTING METHOD
OVERWRITE IT?

will appear. Choosing YES will cause the new method to over write the existing one. (NOTE: Pre-programed methods cannot be over-written. If they are modified, they must be stored as a new method.) Choosing NO will loop the program back to the **METHOD NAME** screen for a new file name. Once a valid method name has been selected, program operation will return to the **OPTIONS Menu.**

2.) Header Information

Associated with each block of data are descriptors that will identify all of the important information needed to use the collected data at a later date. Along with the method information, date and time, etc., are header fields available for user selected information. Each of these fields is 16 characters long and the information is entered from the key pad as described under **Entering Data**. The available fields are:

Operator ID
Customer ID
Job ID
Location ID
Comments

If any of these parameters are changed a new header will be stored in memory, to be linked with the data, as well as printed on the printout, if the printer is enabled. The individual fields are edited through each of the individual screens. Text is entered as described under **Data Entry**.

When printed, the header information will appear as follows:

Time (hh:mm)	**Date** (mm/dd/yyyy)	**Operator ID**
Customer ID	**Job ID**	
Location		**Comments**
Method Name		**Matrix**

BLANK SUBTRACT: (yes/no, If yes: value)

		Analyte Label
	CHLORIDE	**ANALYTE**
SAMPLE ID	**READING**	**CONCENTRATION**

Pressing the <2> key, while in the **OPTION Menu**, will begin the editing of header information at the screen:

HEADER SETUP
<BACK> TO RETURN

Pressing the <ENTER/ON> key will continue to the next screen:

OPERATOR ID
XXXXXXXXXXXXXXXX

After editing the text, pressing the <ENTER/ON> key will allow editing of the next header field:

CUSTOMER ID
XXXXXXXXXXXXXXXX

After editing the text, pressing the <ENTER/ON> key will allow editing of the next header field:

JOB ID
XXXXXXXXXXXXXXXX

After editing the text, pressing the <ENTER/ON> key will allow editing of the next header field:

LOCATION ID
XXXXXXXXXXXXXXXX

After editing the text, pressing the <ENTER/ON key will allow editing of the next header field:

COMMENTS
XXXXXXXXXXXXXXXX

After editing COMMENTS, pressing the <ENTER/ON> key will loop the program back to the first **HEADER SETUP** screen. Pressing the <BACK/OFF> key will exit to the **OPTION Menu** or pressing the <ENTER/ON> key will begin the editing process again.

3.) DATA MANAGEMENT

A number of data management options are available to the user. They can be selected from the **DATA MANAGEMENT Menu**. Data management options are selected independent of the method chosen and remain in effect until changed by selecting a new option. Enter the **DATA MANAGEMENT Menu** by pressing the <3> key from the **OPTION Menu**. The first option is:

STORE EACH
POINT (Y/N)?

Activating this option by pressing the <YES>> key will cause each data point to be stored in memory as it is taken. Data points are stored along with all of the method and header information associated with them. The default for data storage is to store each data point. All data points will be stored automatically unless this option is changed. Pressing the <<NO> key will deactivate this option and no further data will be stored unless this option is activated again.

Once the data storage option has been chosen the next screen is:

CLEAR DATA
MEMORY (Y/N)?

This option should be used periodically to clear out old or unwanted data. Choosing this option erases all stored data and header information and reformats the data storage space. The current header information and the current method are not altered. After choosing this option, confirmation will be required before the data will actually be erased:

ALL DATA WILL BE
LOST. PROCEED?

Pressing the <YES>> or <<NO> key will complete this option as desired and exit back to the **OPTION Menu**.

4.) PRINTER OPTIONS

The default option for the printer is to print all data points as they are collected. Anytime the header information is edited, a new header is printed. Anytime an external printer is connected to the printer port on the back of the unit, all printouts will be directed to the external printer.

The first option under **4) PRINTER OPTIONS** is:

PRINT POINTS
WHEN TAKEN (Y/N)?

Pressing the <YES>> key will cause each data point to be printed as it is taken. (This option refers only to the printing of data in the **Analysis Loop**. Printing stored data points is the next option.) This option can be turned off to save battery power in the field. It will also be turned off automatically if a low power condition exists. Turning off the print option by pressing the <<NO> key will result in no data printout when the data is taken in the **Analysis Loop**. To obtain a hard copy of the data, the data can be printed at a later time.

To print data after it has been stored, press the <YES>> key from the screen:

PRINT LAST XXXX
POINTS

Choosing this option will cause the last xxxx data points to be printed on either the internal or an external printer. The default is all of the stored data. This number can be edited using the numeric key pad.

To print the current header information, press the <YES>> key from the screen:

PRINT HEADER NOW
(Y/N)?

This option will print all of the header information on the current printer.

The last print option is to print out a hard copy of the method parameters. At the screen:

PRINT METHOD NOW
(Y/N)

Press the <YES>> key to print the method.

5) DATE AND TIME

To change the date and/or the time, choose this option and enter the correct information in the indicated fields. The first option to change is:

TIME XX:XX
hh:mm <ENTER>

Enter the time using the 24 hour clock: hours then minutes. The last entry will cause the current time to be briefly displayed and then the screen:

DATE mm/dd/yyyy
mm/dd/yyyy <ENTER>

Enter the date as a 2-digit month and day followed by 4-digit year.

6.) DIAGNOSTICS

This option should be used to periodically check the output of the electrode, such as at the beginning of each day or if the electrode has been stored for an extended period of time. Or, if an electrode error occurs, this option will allow the user to verify the fault and take corrective action. Once this option has been chosen, the L2000DX will begin measuring the mV output of the electrode and display the results along with the ambient temperature.

DIAGNOSTICS x.xx
xx.x mV xx °C

7.) UP LOAD

Chose this option to upload stored data to a PC. The L2000DX Data Manager must be loaded an running on the target PC. (See **L2000DX Data Manager**.)

To upload data, first connect the L2000DX Analyzer to the PC using the upload cable provided. Once connected, select the **7) PC UPLOAD** option by pressing the <7> key from the **OPTION Menu**. The display will change to:

BEGIN UPLOAD
<BACK> TO STOP

Then, from the PC, choose BEGIN UPLOAD to begin the upload.

8.) SET TEMP

This option allows for the field adjustment of the internal thermistor. When adjusting the L2000DX thermistor, the resulting temperature measurements are only as accurate as the thermometer used for adjustment.

To adjust the internal thermistor, choose **8) SET TEMP** by pressing the <8> key from the **OPTIONS Menu**. The L2000DX will check the current temperature and display the raw result on the screen:

INPUT TEMP IN °C
XX.X °C (RAW)

enter the current temperature followed by pressing the <ENTER/ON> key. The adjusted temperature will be displayed with the message:

NEW TEMP TO USE
XX.X °C OK(Y/N)?

NOTE: An adjustment of ±5°C max. is allowed. If the input temperature differs by more than this, the temperature will be fixed at the max/min allowed.

L2000DX Data Manager

Introduction

The L2000DX Data Manager is a PC based data base program specifically designed for data from the L2000DX Analyzer. It provides four basic capabilities: uploading stored data, report generation, data export functions and basic data base functions for tracking data from one or more L2000DX Analyzers.

Installation

To install the Data Manager: Insert program CD into CD drive and run setup.exe. The install program will provide guidance for all installation steps.

Uploading data

Each time you upload data from a particular L2000DX unit, the software reads from the unit the date it was last cleared and stores this date for future reference. It also stores the number of the last record uploaded. The next time you upload data from the same unit, the software compares the date it reads from the unit with the stored date. If they are the same, it continues uploading data from the last uploaded record, eliminating any duplication in your data set. If the dates are different, the software assumes you have cleared the unit since your last upload and begins uploading data with the first record in the unit.

Note that the software keeps track of multipleL2000DXunits by reading from each unit its unique, factory-supplied serial number.

To upload data from an L2000DX analyzer, connect the analyzer to the PC using the supplied cable then select **7) PC UPLOAD** on the L2000DX unit. Once the unit is connected and ready to upload choose **Upload** from the **Communicate** menu on the PC. Choosing it opens the **L2000DX Upload** box. Once this box is open click **OK**. The program will contact the L2000DX analyzer and begin uploading stored data.

If you want to cancel the process, click on the **X** in the upper right corner of the box, then click Abort Transfer in the resulting Communication Status message box.

Selecting Data

Choosing **Selection** at the menu bar causes the **Define Sample Selections** dialog box to appear. Here you can choose to display only some of the available data records by using combinations of various filters.

Note: These filters will affect the display, printing and export of data.

Selection Filter - This heading (left side of the dialog box) contains four selections: **Header, Customer, Job** and **Location**. Check the checkbox for the filter(s) you want to use. You cannot combine **Header** with any of the other three filters, however the other three may be used in any combination. When you select one of the filters, a drop-down menu appears displaying the values available in the active data set.

> **Header Range Filter** - This area lets you choose a range of consecutive Header numbers. The Starting and Ending must be different, and the Ending number must be greater than the Starting number.
>
> **Sample Range Filter** - This area lets you choose a range of consecutive Ref #s. The Starting and Ending may be the same, but the Ending number must be greater than the Starting number.

As you make various filter selections, the data in the L2000DX window will change to reflect your choices, even while the Define Sample Selections dialog box is open.

The L2000DX Data Manager combines filters so that the data displayed, printed or exported satisfies all the filters. For example, if you select a **Customer** and a **Job** filter, you will see only data records with the required Customer number and the required Job number, not data with either the Customer number or the Job number.

As soon as you select any filter, a **Clear All** button appears in the dialog box to allow you to quickly clear all filter selections. A **Clear All Filters** button will also appear on the L2000DX Data Manager window so you can clear filters later without returning to the **Define Sample Selections** dialog box.

Generating a Report

Choosing **Print Report** at the **File** menu causes the **Report Page Format** dialog box to appear. This box allows you to specify a title for your report.

In the edit field, type a title of up to 70 characters to be centered in the header of the report form.

Click the **Print Preview** button to see what the report will look like. You may choose to print the report from the preview screen.

Click the **Cancel** button to dismiss the **Report Page Format** box without previewing the report.

Exporting Data

To export data to a Microsoft Excel spread sheet, choose **Export** from the **File** menu. This will open the **Save As** dialog box to allow you to choose the location for saving the currently active data set in Microsoft Excel spreadsheet format.

Care and Maintenance

Your L2000DX is designed for ease of use and reliability and requires very little maintenance. By following the instructions outlined below, you should be able to obtain maximum life from the electrode and the instrument itself.

Changing Paper

1. Turn the L2000DX Analyzer off and remove the external power plug, if attached. Turn the analyzer over, lay flat on smooth surface and remove paper access door on bottom.

2. Remove the empty paper roll by grasping the roll in the middle with one hand. With the other hand, gently push one side of the paper bracket out away from the roll, while lifting the roll in the middle. This will free one end of the spindle. Continue lifting the roll out of the bracket until it is free.

3. Remove the paper spindle from the spent core and insert into the new roll of paper.

4. With the L2000DX Analyzer still upside down and the paper access on the right side, slide the analyzer to the edge of the table until it hangs over the edge far enough for the paper slot on the keypad to be accessible. DO NOT ALLOW THE UNIT TO HANG TOO FAR OVER AS IT MAY FALL.

5. Install the new paper roll into the holder with the loose end of the paper coming off the top of the roll. (Treated side must be on the top of the paper as it exits the roll.) Grasping the roll in the middle, slide the roll between the uprights of the paper holder until the ends of the spindle snap into the holes in the paper bracket. While pushing in the paper roll, it may be necessary to slide the roll of paper to one side to deflect the paper holder enough to clear the other side. Once in place, the roll should spin freely and remain on the holder.

6. The paper should now be installed in the paper holder with the free end on top of the roll. With a clean square end, fold one corner of the paper back flush with the opposite side to form a 45E point on the end. If there is not a clean square end on the paper, pull off a length of paper and tear a square edge off, along the bottom of the case, before folding the corner.

7. Place the paper flat on the circuit board with the pointed end of the paper extending over the edge of the paper slot. Position the point approximately 1 inch from the side of the slot and, while keeping the paper flat on the board, slide the paper forward so that the point goes under the front edge of the green circuit board and into the printer. Continue pushing the paper forward, while gently moving the paper from side to side, until the paper exits the front of the analyzer.

8. Gently pull the paper through from the front of the analyzer until a section of the full width of paper is exposed.

9. If the paper does not exit the front of the analyzer, remove the paper and retry from step 7 above.

10. Once the paper has been installed, replace the paper access door and turn the analyzer back over.

General Care

Do not allow the instrument to get wet. As with any electronic instrument, water is the quickest way to destroy the L2000DX's components. Store the instrument in its case when it is not in use and do not expose it to extremely humid environments.

Be careful not to spill any of the solutions on the instrument. They are all acidic and will quickly destroy the circuitry if they come into contact with it. If solutions are spilled onto the instrument, wipe it off quickly with a damp cloth. Do not store solutions in the same case with the instrument, as any leakage may cause serious damage. This is particularly important when the instrument is to be shipped by air.

When using the L2000DX where AC power is available, operate the instrument with the AC adapter. This will prolong the life of the battery and insure that the battery is always charged.

Always store the L2000DX with fully charged battery. (A completely dead battery could take approximately 6-8 hours to charge fully.)

If the L2000DX is to be stored for prolonged periods of time, it is important to periodically charge the battery. This will prolong the battery life and insure that the analyzer is always ready for use.

Protect the analyzer from static electric charges. The keypad and case are isolated from the internal circuitry and are not susceptible to static discharge. However, when connecting the electrode to the meter, under certain environmental conditions, the static discharge may reset the power management circuit. Before connecting the electrode, first touch the outer ring of the BNC connector with one hand while holding the metal connector on the electrode in the other. Then connect the electrode to the Analyzer.

The L2000DX analyzes for PCBs/Chlorinated Organics by finding the total amount of chlorine in a given sample. It is important, therefore, to keep all extraneous sources of chlorine away from the instrument and the various solutions. Take extra precaution when working near salt water or under very warm conditions when contamination by perspiration is possible. Never pour used CALIBRATION, RINSE, or EXTRACT solution back into a storage bottle as the entire bottle may become contaminated.

Electrode Care and Maintenance

The electrode is the most sensitive component of the L2000DX system. Care must be taken not to damage the sensing membrane on the tip of the electrode. If it does become damaged or contaminated, it may be possible to restore the electrode response by polishing. To polish the electrode: Remove one of the membrane polishing strips from the instrument case and place it flat on a solid surface, abrasive side up. Place one or two drops of RINSE solution or distilled water on the abrasive strip. With the electrode perpendicular to the abrasive strip, polish the electrode tip by gently moving it in a circular motion for about 30 seconds. Apply constant pressure, but do not push too hard on the electrode. When finished, soak the electrode for five minutes in rinse solution. Polishing strips can be reused several times. NOTE: DO NOT OVER POLISH. ELECTRODES SHOULD BE POLISHED ONLY WHEN NECESSARY.

When an electrode is not to be used for a period of more than one week or for an indefinite period, drain the filling solution from the electrode, flush the inside one or more times with distilled water, and store it dry with the protective black cap to protect the sensing membrane. Make sure to follow the procedures for restoring electrodes before using the electrode again (see **Restoring the Electrode After Extended Storage**).

Otherwise, the electrode filling solution should not be allowed to evaporate causing crystallization. For short periods of time between sample measurements including up to one week storage, maintain filling solution in the electrode and store the electrode in rinse solution. (NOTE: If a period of 12 hours [overnight] or longer elapses between measurements, drain a portion of the filling solution from the electrode, add additional filling solution to the filling hole, and start with fresh rinse solution.)

Trouble Shooting

The instrument does not turn on.

1. The battery is dead. Plug in the AC adapter and retry.

2. The power management circuit has been overloaded and is locked due to a severe static electric discharge during the connection of the electrode. Contact Dexsil Corporation for further technical assistance.

The instrument turns on but the time and date have been lost.

1. The power management circuit has been overloaded and has reset. This is most likely due to a static electric discharge during the connection of the electrode. Re-enter the time and date and proceed with the operation of the instrument. Follow the procedure outline under **Electrode Care** for connecting the electrode. Check electrode output in "***DIAGNOSTICS***" Mode.

2. The battery has been disconnected and reconnected, resetting the power management circuit. Proceed as above.

The instrument turns off when plugging in the electrode.

1. A large static electric discharge has overloaded the power management circuit. Turn Analyzer on in the normal manner. Power-up will be to the time and date screen. Follow the procedure outline under **Electrode Care** for connecting the electrode.

The instrument does not provide a millivolt reading, in "*DIAGNOSTICS*", after the electrode has been plugged in.

Check the electrode to verify that it contains the filling solution. If it is empty or low, refill the electrode as described in: **Restoring the Electrode After Extended Storage.**

1. Make sure that the bottom half inch (centimeter) of the electrode is completely immersed in the rinse solution.

2. Check the cable for loose connections.

The millivolt reading will not exceed 140 mV.

1. Replace the RINSE solution, and swirl the electrode for several seconds before letting the reading stabilize.

2. Replace the filling solution in the electrode as described in: **Restoring the Electrode After Extended Storage.**

3. Polish the end of the electrode. Remove one of the membrane polishing strips from the instrument case and place it flat on a solid surface, abrasive side up. Place one or two drops of RINSE solution or distilled water on the abrasive strip. With the electrode perpendicular to the abrasive strip, polish the electrode tip by moving it in a circular motion for about 30 seconds. Apply constant pressure, but do not push too hard on the electrode.

4. DO NOT OVER POLISH!! ELECTRODES SHOULD BE POLISHED ONLY WHEN NECESSARY.

The electrode will not calibrate.

1. During calibration the output from the electrode is checked. If it is outside the acceptable range, the electrode will not calibrate and the program will jump to "DIAGNOSTICS". In this mode check the output of the electrode. It should be between 50 mV and 75 mV. To obtain the proper millivolt output, the tip of the electrode must be immersed in calibration solution. If the electrode contains adequate filling solution, and is immersed in **fresh** calibration solution and allowed to equilibrate, the output should reach the correct level.

2. The electrode will not calibrate, even after it has equilibrated:

   a. Change the calibration solution and refill the electrode as described in the **Restoring the Electrode After Extended Storage.**

b. If this does not solve the problem, polish the electrode as outlined in **Care and Maintenance.**

c. If these procedures do not work, the electrode may need to be replaced. Contact Dexsil for return information.

Insufficient quantity of solvent recovered from soil extraction.

Some soils are extremely dry or may contain a large percentage of organic material which can absorb enough extraction solvent so that there is less than the required amount of solvent available to complete the test. When soils of this type are being tested, five grams of sample instead of ten may be used. The final reading is then doubled or the Method is modified so that the **Sample Size Correction** is changed to **twice** its normal value. For instance, if, after weighing in five grams of soil, the final reading on theL2000DX is 35 ppm, the actual result for that sample is 70 ppm. Make sure to use the full quantity of extraction solvent and follow the instructions as you would for any sample. NOTE: This technique causes a loss of precision and should not be used unless absolutely necessary.

Error Messages

CAL ERROR: This message is generated during calibration if the electrode output is not between 50 mV and 75 mV. If this message occurs:

1. Check solutions and change if not correct or not fresh.

2. Check electrode output and refill with fresh fill solution if necessary.

CHECK DRIFT: This message indicates that there is excessive drift in the electrode output either during a measurement or calibration. If this message occurs during the measurement of an unknown, the best estimate of the analytical result will be displayed below the warning. This number is for reference only, it may not be reliable. The sample must be re-analyzed to obtain an acceptable result. If this message occurs during a calibration, the electrode mV output will appear below the warning. If the warning appears, check the following:

1. Check the electrode performance as described under **Restoring the Electrode After Extended Storage**. Follow the steps for electrode draining and refilling, then recheck the electrode output. If this message occurs during calibration, the electrode is most likely damaged. See above under **The electrode will not calibrate.**

2. Check electrode leakage - The electrode is designed to leak a small amount of filling solution through the gap between the sensing pellet and the epoxy body. If the leak rate is too slow or too fast the performance of the electrode may be adversely affected. The electrode leak rate should be between 0.2 cm and 3 cm in 24 hours (as measured from the filling hole to the top of the fill solution).

3. Check for sample contamination. Some samples contain high levels of sulfur, heavy metals, waste oil, or other organics that may carry over to the final extract. If these compounds come into contact with the electrode, they can poison the sensing element. The output from the electrode will deteriorate with repeated exposure to these contaminants. If repeated samples cause a drift error, but the electrode checks out with the standard solutions, check for sample contamination.

CHECK ELECTRODE: This message indicates that the electrode output has exceeded 180 mV. If this message appears, the electrode has been damaged or the wrong electrode has been attached to the L2000DX analyzer. Check for the correct electrode then follow steps for restoring an electrode.

HIGH: This message indicates that an unknown reading is above 5000 ppm in analyte concentration. This message only appears during an unknown measurement. If this message occurs, re-analyze the sample using a smaller sample size.

LOW: This message indicates that an unknown reading has resulted in a negative analyte concentration. This can be caused by either an electrode malfunction or an improper blank value used, i.e., a large blank value not representative of the true blank. If this message occurs, check the blank value used or check the electrode function as described above. If the electrode checks out, investigate possible co-contaminants in the sample that may have adversely affected the electrode.

LOW BATTERY: If the battery voltage drops below the operational level of the instrument, the display will read **"LOW BATTERY"** followed by the message **"Power Off"** at which time the instrument will turn off automatically.

PRINTER ERROR: Should the printer become jammed during the operation of the instrument, the operator will receive the following message:

PRINTER ERROR
DISABLE (Y/N)

Choosing "N" will cause the instrument to recheck the printer. Message will read:

CHECKING PRINTER
AGAIN

Choosing "Y" will disable the printer until the instrument is turned off and then on, at which time the printer will be checked again.

Appendix A: Additional Information Available from Dexsil

DTR-10-01 "Alternative Methods of PCB Analysis", Stephen Finch, Dexsil Corporation; Generators Journal, Winter 1990.

DTR-10-02 "One Example Where Chromatography May Not Necessarily Be the Best Analytical Method", S.R. Finch, D.A. Lavigne-Dexsil Corporation, R.P.W. Scott, Ph.D.-Georgetown University; Journal of Chromatographic Science-July 1990.

DTR-11-01 "A Comparison of Current PCB Analytical Techniques", Stephen Finch-Dexsil Corporation; PCB Forum, 3rd International Conference for the Remediation of PCB Contamination, 1991.

DTR-11-02 "Case Study of a New Field Screening Tool for Delineating Soil PCB Contamination", Mark B. Williams, PE and John S. Flickinger-Dames & Moore (Madison, WI), Joseph E. Shefchek, CHMM-Wisconsin Power & Light (Madison, WI), E. Jonathan Jackson, CHMM-Haliburton NUS Environmental Corp. (Aiken, SC); Proceedings: 1991 EPRI PCB Seminar.

DTR-11-03 "PCB Determination, Simple/Low Cost or Complex/Expensive, Which Method is the Most Reliable in the Field?", S. Finch, pp. 45-1 to 45-4; Proceedings: 1991 EPRI PCB Seminar

DTR-12-01 "Application of a New PCB Field Analysis Technique for Site Assessment", Roger D. Griffin-Griffin Environmental; Proceedings of Hazmacon '92 March-1992.

DTR-12-02 "Available Options for the Analysis of PCBs", Stephen Finch; Environmental Science and Engineering p. 15., Feb.-March.

DTR-13-01 "Electrochemical Method for Surface Testing of PCB Contaminated Electrical Equipment", Stephen Finch; 7th Annual Industry and PCB Forum, June 1993, Canadian Electricity Forum.

DTR-13-02 "A Comparison of Popular Field Screening Methods for PCB Contamination in Soil", Alvia Gaskill-Environmental Reference Materials, 1993 EPRI PCB Seminar.

DTR-14-02 "Comparison of the Response of PCB Test Methods to Different PCB Aroclors", Stephen Finch-Dexsil Corporation; Proceedings of "The Tenth Annual Waste Testing and Quality Assurance Symposium", July 11-15, 1994 Arlington, VA.

DTR-14-03 "Effect of Transformer Oil, Petroleum Hydrocarbons and Inorganic Salt as Interferences in Field Screening for PCB Contamination of Soil", Alvia Gaskill; Proceedings of "The Tenth Annual Waste Testing and Quality Assurance Symposium", July 11-15, 1994 Arlington, VA.

DTR-17-01 "Determination of Chlorinated Hydrocarbon Concentrations in Soil Using a Total Organic Halogen Method", T.B. Lynn, J.C. Kneece, B.J. Meyer, A.C. Lynn; Presented at the 13th Annual Waste Testing & Quality Assurance Symposium, July 6-9, 1997, Arlington, VA.

DTR-17-02 "Improved Extraction Efficiency of Polychlorinated Biphenyls From Contaminated Soil Using a Total Halogen Screening Method", W.S. Schutt-Young, Ph.D., A.C. Lynn, T.B. Lynn, Ph.D., B.J. Meyer, M.J. Krumenacher; Presented at "EnvirACS '97" held at the 13th Annual Waste Testing & Quality Assurance Symposium, July 7-9, 1997, Arlington, VA.

DTR-18-03 "Electrochemical Technique/Ion Specific Electrode Dexsil Corporation L2000 PCB/Chloride Analyzer", A.B. Dindal, S. Billetts, Environmental Technology Verification Report, US-EPA, Office of Research and Development, Washington, D.C., EPA/600/R-98/109, August1998

DTR-20-01 PCB Detection Technology Dexsil Corporation L2000DX Analyzer, A.B. Dindal, C.K. Bayne, E.N. Koglin, Draft Environmental Technology Verification Report, US-EPA Office of Research and Development, Washington, D.C. Report, December 2000

DTR-21-01 "Analysis of Water for PPB Range Chlorinated Organics Using a Total Organic Chlorine Analyzer," Theodore B. Lynn, Ph.D., Mary Kate Boggiano, Larry M. Sacramone, David L. Balog, Andrew C. Lynn, Dexsil Corporation, Presented at the Waste Testing and Quality Assurance Symposium 2001, August 13-16, 2001, Arlington, VA

DTR-21-02 "Low Level Detection of PCE in Monitoring Well Samples Using a Total Organic Chlorine Based Field Method," Theodore B. Lynn, Ph.D., Dexsil Corporation, Keith A. Wright, Camino, California, Presented at the Waste Testing and Quality Assurance Symposium 2001, August 13-16, 2001, Arlington, VA

DTP-09-01 "Accurate On-Site Analysis of PCBs in Soil, A Low Cost Approach", Deborah Lavigne-Dexsil Corporation.

DTP-09-02 "Field Test Kit for Quantifying Organic Halogens in Water and Soil", Deborah Lavigne-Dexsil Corporation.

DTP-11-01 "PCB Analysis by Gas Chromatography-What do the Numbers Mean? 1991", Stephen Finch-Dexsil Corporation.

DMR-16-01 EPA Method 9078 "Screening Test Method for Polychlorinated Biphenyls in Soil", 3rd edition SW 846- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, June 1997; Federal Register Vol. 62, No. 114, 6/13/97, Rules & Regulations.

Appendix B: L2000DX System Methods Table

Compound	Blank Subtract	%Chlorine	Size Multiplier	Extraction Multiplier	Matrix	Units	Analyte Label	Method Name
Aroclor 1242	yes	42	1.13	1.11	Oil	ppm	AROCLOR 1242	1242 OIL
Aroclor 1242	yes	42	1	1.33	Soil	ppm	AROCLOR 1242	1242 SOIL
Aroclor 1242	yes	42	1	1.1	Soil	ppm	AROCLOR 1242	2 STEP 1242
Aroclor 1242	yes	42	1	1	Wipe	Fg/100scm	AROCLOR 1242	1242 WIPE
Aroclor 1242	yes	42	1	1.25	Water	ppm	AROCLOR 1242	1242 WATER HIGH
Aroclor 1254	yes	54	1.13	1.11	Oil	ppm	AROCLOR 1254	1254 OIL
Aroclor 1254	yes	54	1	1.33	Soil	ppm	AROCLOR 1254	1254 SOIL
Aroclor 1254	yes	54	1	1.1	Soil	ppm	AROCLOR 1254	2 STEP 1254
Aroclor 1254	yes	54	1	1	Wipe	Fg/100scm	AROCLOR 1254	1254 WIPE
Aroclor 1254	yes	54	1	1.25	Water	ppm	AROCLOR 1254	1254 WATER HIGH
Aroclor 1260	yes	60	1.13	1.11	Oil	ppm	AROCLOR 1260	1260 OIL
Aroclor 1260	yes	60	1	1.33	Soil	ppm	AROCLOR 1260	1260 SOIL
Aroclor 1260	yes	60	1	1.1	Soil	ppm	AROCLOR 1260	2 STEP 1260
Aroclor 1260	yes	60	1	1	Wipe	Fg/100scm	AROCLOR 1260	1260 WIPE
Aroclor 1260	yes	60	1	1.25	Water	ppm	AROCLOR 1260	1260 WATER HIGH
Askarel A	yes	99	1.13	1.11	Oil	ppm	ASKAREL A	ASKAREL A OIL
Askarel A	yes	99	1	1.33	Soil	ppm	ASKAREL A	ASKAREL A SOIL
Askarel A	yes	99	1	1.1	Soil	ppm	ASKAREL A	2 STEP ASKAREL A
Askarel A	yes	99	1	1	Wipe	Fg/100scm	ASKAREL A	ASKAREL A WIPE
Askarel A	yes	99	1	1.25	Water	ppm	ASKAREL A	ASK A WATER HIGH

Compound	Blank Subtract	%Chlorine	Size Multiplier	Extraction Multiplier	Matrix	Units	Analyte Label	Method Name
DDT	yes	50	1	1.91	Soil	ppm	DDT	DDT SOIL
Toxaphene	yes	68	1	1.54	Soil	ppm	TOXAPHENE	TOXAPHENE SOIL
Chlordane	yes	69	1	1.42	Soil	ppm	CHLORDANE	CHLORDANE SOIL
PCP*	yes	67	1	2.54	Soil	ppm	PCP	PCP SOIL
Trichloro ethylene	yes	81	1	1.00	Soil	ppm	TRICHLOR	TRICHLOR SOIL
Trichloro ethylene	yes	81	10	1.86	Water	ppb	TRICHLOR	TRICHLOR WATER
1,1,1 Tri-chloro ethane	yes	80	10	2.03	Water	ppb	111 TRICHLETHANE	111 TRICHL WATER
Tetrachloro ethylene	yes	86	1	1.00	Soil	ppm	TETRACHLOR	TETRACHLOR SOIL
Tetrachloro ethylene	yes	86	10	1.89	Water	ppb	TETRACHLOR	TETRACHLOR WATER
Methylene Chloride	yes	83	10	13.0	Water	ppb	METHCHLORIDE	METHCHLOR WATER
Vinyl Chloride	yes	57	10	5.36	Water	ppb	VINYLCHLORIDE	VINYLCHLOR WATER
Dichloro ethylene	yes	73	10	3.46	Water	ppb	DICHLORETHYLENE	DICHLOR WATER
Chloride	yes	100	1	1	None	ppm	CHLORIDE	CHLORIDE

* Requires two-step solvent system with filter omitted.

Appendix C: Technical Data

Physical

Size:	w = 9" (230mm) d = 9.5" (240mm) h = 4.25" (110mm)
Weight:	5 lbs. 12 oz. (2.6 kg)
Shipping Weight:	17 lbs. (7.75 kg)
Case:	Painted Aluminum
Keypad:	16 Position UV-Resistant Polyester Membrane Keypad

Electrical

Battery Power:	Internal 8V Gel Cell (3 Days of Operation on Full Charge)
Line Power:	12 W, 115V or 220V Wall Transformer
Charging:	Internal IC Controlled Charging Circuit
Power Management:	Automatic Shut-Off After 15 Minutes of Non-Use With Low-Power Warning and Shut-Off

Digital

Processor:	AM188EM
A/D Converter:	24 Bit Auto-Ranging
Memory:	
Method Storage:	28 Pre-programed Methods + Up to 22 User Defined Methods
Data Storage:	1800 pts

Input

Range: ± 300 mV	
Electrode:	BNC Connector (Back Panel)Electrode Type:ORION 96-17B Combination Chloride Electrode

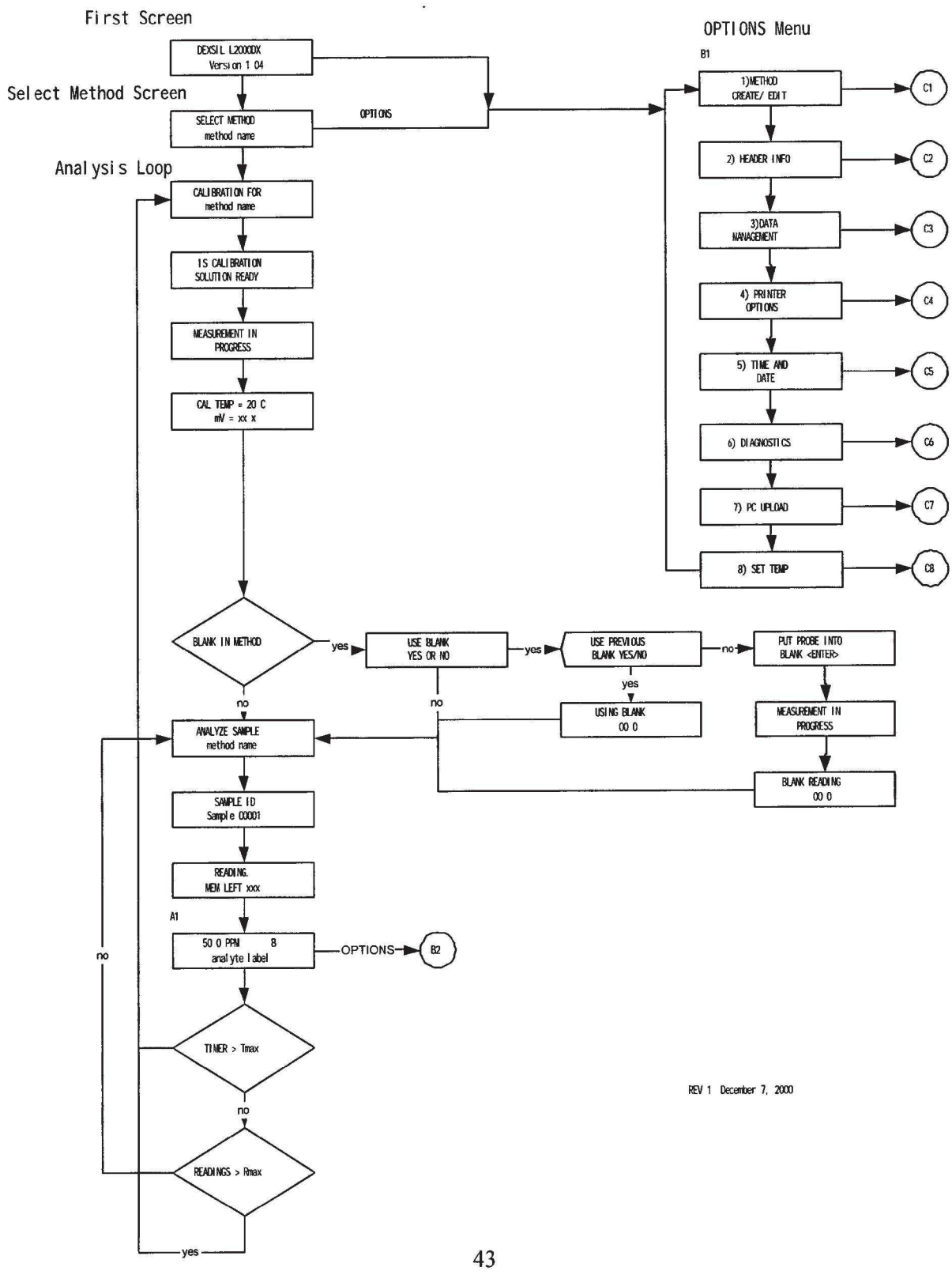
Output

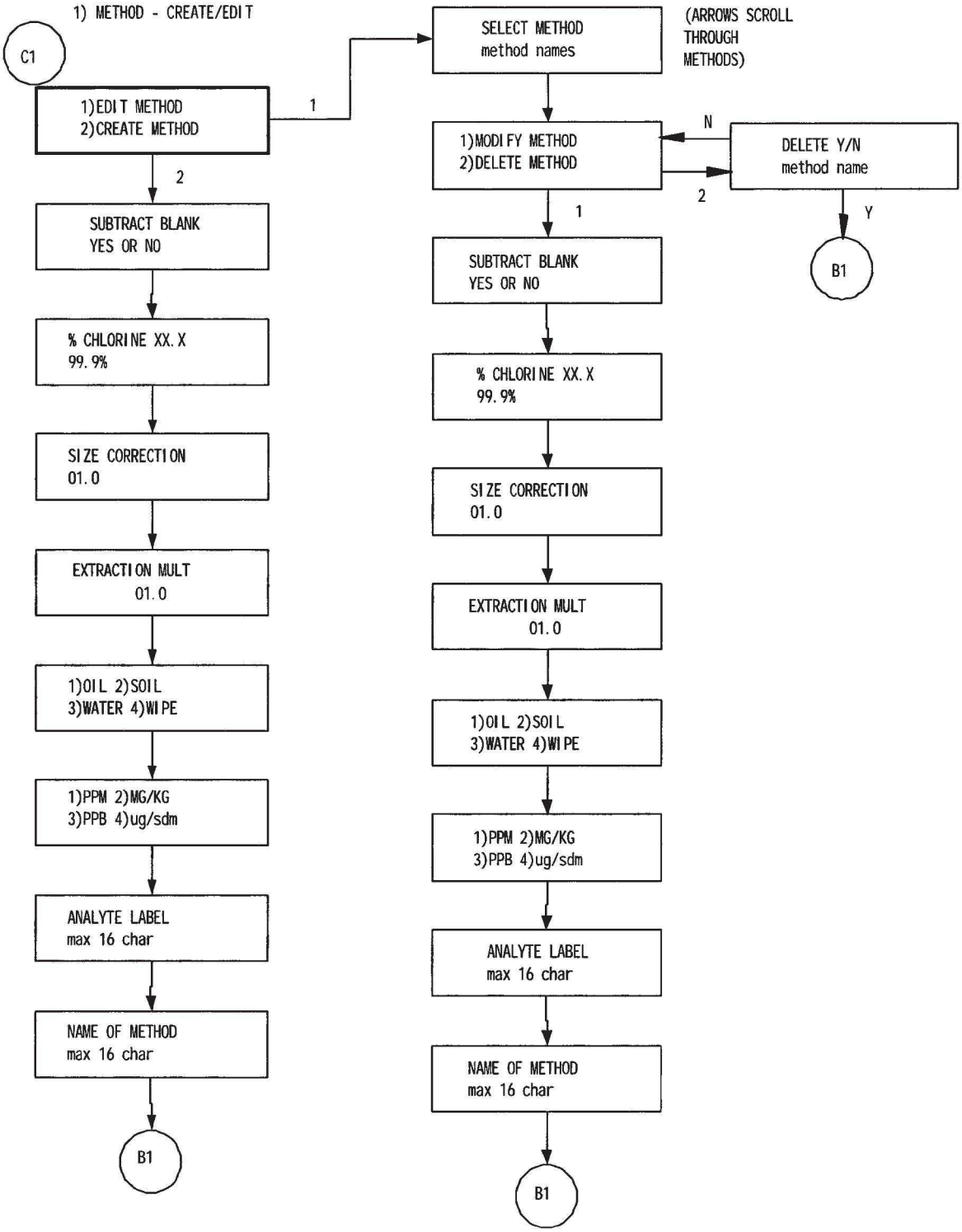
Display:	Backlit, 2 x 16 LCD, 0.32" Character Height
Printer:	40 Character Onboard Thermal Printer (Paper Re-Order PN: LP-THP-01)
External Printers:	Canon BJC-4300, BJC 250, and BJ-200ex, Epson ActionLaser 1400, and Stylus 740, HP DeskJet 870Cse, and LaserJet 4000T
Parallel Printer Port:	25-pin Female Connector (bidirectional)
RS-232:	Data Upload to PC (L2000DX Data Manager required)

Operating Environment

Temperature:	55 °F - 100 °F (13 °C - 38 °C)
Humidity: 85% (non-condensing)	
Sunlight:	Do Not Operate With Electrode Exposed to Direct or Indirect Sunlight

Appendix D: Program Flow Chart





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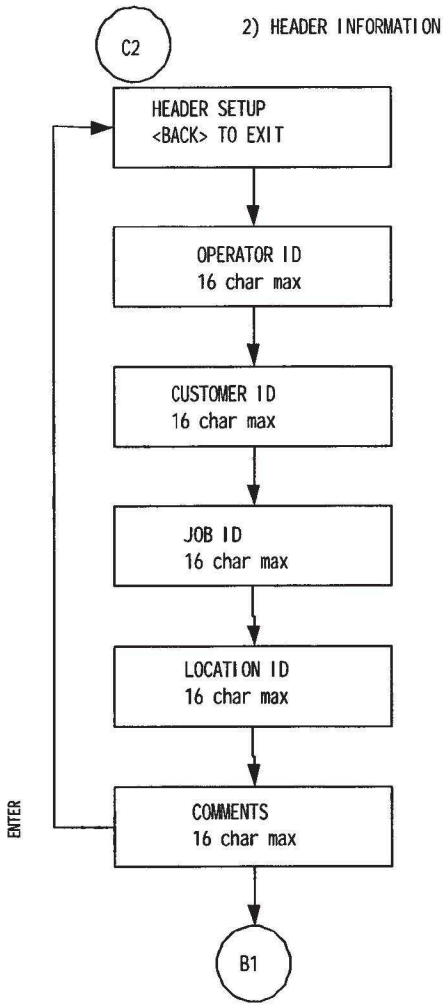
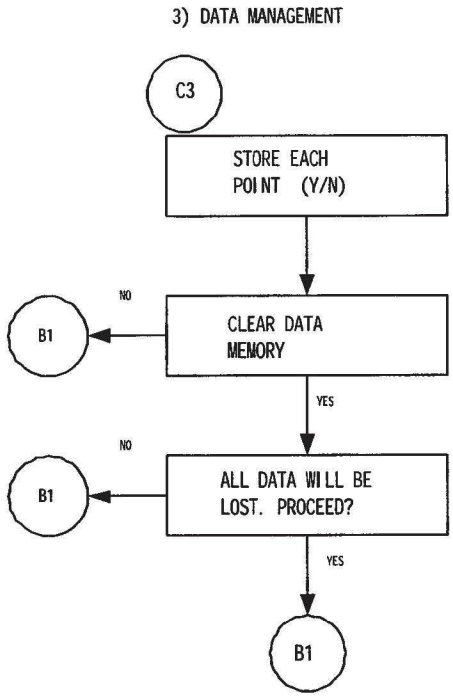
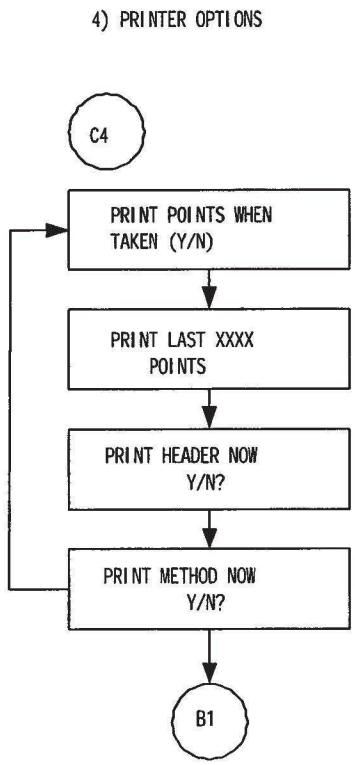
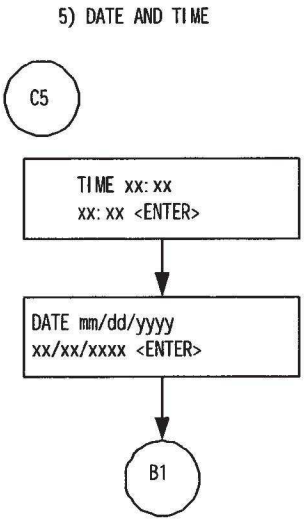




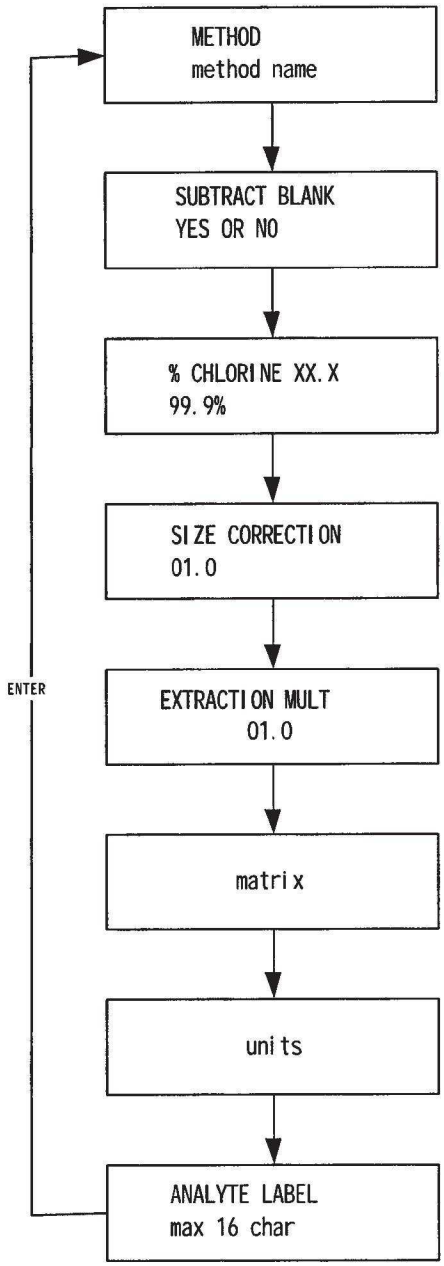




REV 2, December 7, 2000

METHOD INFORMATION

B2



ENTER SCROLLS THROUGH METHOD. BACK RETURNS TO A2.

REV 1 December 7, 2000

DEXSIL CORPORATION
L2000DX ANALYZER
ONE YEAR LIMITED WARRANTY

DEXSIL CORPORATION warrants the L2000DX Analyzer against defects in material or workmanship for a period of one year from the date of purchase. During the warranty period, any product which is determined by DEXSIL to be defective in material or workmanship and returned to DEXSIL as specified below, will be, as the exclusive remedy, repaired or replaced at DEXSIL's option.

The cost of repair or replacement is included, shipping costs are not and are to be paid by the customer.

In the event that an L2000DX Analyzer is suspected to be defective contact a DEXSIL representative at the address below to obtain a return authorization:

DEXSIL CORPORATION
ONE HAMDEN PARK DRIVE
HAMDEN, CT 06517
TEL:(203) 288-3509
FAX:(203) 248-6523

Upon return of the unit it will be inspected and a determination will be made as to whether the product is defective. If defective, arrangements will be made for repair or replacement without charge.

THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED. DEXSIL SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

DEXSIL CORPORATION IS NOT LIABLE FOR INDIRECT OF CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, or accidents.

All warranty repairs reimbursable under this warranty must be performed by DEXSIL CORPORATION or its representative using approved replacement parts.

Repairs or attempted repairs by anyone other than a DEXSIL representative are not reimbursable under this warranty. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Record of Communication

September 23, 2016

From: Jonathan McInnis

SCDHEC, Site Assessment Section

To: Burlington Industries Cheraw File

Spoke with Kip Foster [(540) 562-6782] of Virginia Department of Environmental Quality regarding the BGF, Inc. Altavista plant in Altavista, Virginia. The plant was originally built in 1958 as Burlington Industries as a glass fiber fabric plant. PCBs were discovered in areas around the plant site in the late 1990's at extremely high levels (100's – 1,000's ppm). The source of the PCBs was determined to be a roof-mounted heat exchange unit. They sampled on the roof and in piping leading from the roof to verify the source. No known use of any PCB-containing coatings for fabric application. The facility has done some cleanup at the facility under an EPA self-administered cleanup. Also, the town's former lagoon is highly contaminated with PCBs, they are exploring a phytoremediation option at the moment.

He also suggested I contact Kevin Crider (434-582-6212) for additional site information if needed.