

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (**check one**):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: Unknown (presumed surface release)

ATTN DNR: **R & R Program Associate** Date DNR Notified: **04/19/2019**

1. Discharge Reported By		
Name Travis Peterson	Firm Kapur	Phone Number (include area code) (414) 751-7279
Mailing Address 7711 N. Port Washington Road, Milwaukee, WI 53217		Email tpeterson@kapurinc.com

2. Site Information		
Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property. 1818 W. National Avenue		
Location: Include street address, <u>not PO Box</u> . If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60. 1818 W. National Avenue		
Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city. Milwaukee		
County Milwaukee	Legal Description: NW ¼ of SE ¼ Section 31, Town 07 N, Range 22 <input checked="" type="radio"/> E <input type="radio"/> W	WTM: X 688087 Y 285482

3. Responsible Party (RP) and/or RP Representative	
Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary. Cristo Rey Jesuit High School Milwaukee	
<input type="checkbox"/> A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055 ; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237 .	

Contact Person Name (if different) Andrew Stith	Phone Number (414) 436-4600	Email astith@crstoreymilwaukee.org
Mailing Address 1215 South 45th Street	City Milwaukee	State WI
		ZIP Code 53214

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email
Mailing Address	City	State
		ZIP Code

(continued)

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Travis Peterson Kapur

Form 4400-225 (R 06/17)

Page 2 of 3

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> VOCs
<input type="checkbox"/> PCE
<input type="checkbox"/> TCE
<input type="checkbox"/> Other Chlorinated
<input type="checkbox"/> Diesel
<input type="checkbox"/> Fuel Oil
<input type="checkbox"/> Gasoline
<input type="checkbox"/> Hydraulic Oil
<input type="checkbox"/> Jet Fuel | (VOCs continued)
<input type="checkbox"/> Mineral Oil
<input type="checkbox"/> Waste Oil
<input checked="" type="checkbox"/> Petroleum-Unknown Type
<input checked="" type="checkbox"/> PAHs
<input type="checkbox"/> PCBs
<input type="checkbox"/> Cyanide
<input type="checkbox"/> Leachate
<input type="checkbox"/> Manure | <input checked="" type="checkbox"/> Metals
<input type="checkbox"/> Arsenic
<input type="checkbox"/> Chromium
<input checked="" type="checkbox"/> Lead
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Pesticides: _____
<input type="checkbox"/> Fertilizer: _____
<input type="checkbox"/> RCRA Hazardous Waste: _____
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Unknown |
|--|---|---|

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- | | | |
|--|---|--|
| <input type="checkbox"/> Air Contamination | <input type="checkbox"/> Fire Explosion Threat | <input checked="" type="checkbox"/> Soil Contamination |
| <input type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum) | <input type="checkbox"/> Free Product | <input type="checkbox"/> Soil Gas Contamination |
| <input type="checkbox"/> Contamination in Fractured Bedrock | <input type="checkbox"/> Groundwater Contamination | <input type="checkbox"/> Sub-slab Vapor Contamination |
| <input type="checkbox"/> Contamination Within 1 Meter of Bedrock | <input type="checkbox"/> Off-Site Contamination | <input type="checkbox"/> Surface Water Contamination |
| <input type="checkbox"/> Contaminated Private Well | <input type="checkbox"/> Sanitary Sewer Contamination | <input type="checkbox"/> Within 100 ft of Private Well |
| <input type="checkbox"/> Contaminated Public Well | <input type="checkbox"/> Storm Sewer Contamination | <input type="checkbox"/> Within 1000 ft of Public Well |
| <input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Sediment Contamination | |
| Other (specify): _____ | | |

Contamination was discovered as a result of:

- | | | |
|--|---|--|
| <input type="checkbox"/> Tank closure assessment | <input checked="" type="checkbox"/> Site assessment | <input type="checkbox"/> Other - Describe: _____ |
| Date <input type="text"/> | Date <input type="text" value="09/18/2018"/> | Date <input type="text"/> |

Lab results: Lab results will be faxed upon receipt Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

The contaminant impacts are currently located beneath an asphaltic concrete parking lot and do not pose a direct contact risk.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

	Source	Cause
For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information: <input type="checkbox"/> Does not apply.	<input type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Submersible Turbine Pump <input type="checkbox"/> Delivery Problem <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Physical or Mechanical Damage <input type="checkbox"/> Installation Problem <input type="checkbox"/> Other (does not fit any of above) <input type="checkbox"/> Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

- Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate:** DNRRRNER@wisconsin.gov
 Brown, Calumet, Door, Fond du Lac (except City of Waupun - see South Central Region), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties
- Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate:** DNRRRNOR@wisconsin.gov
 Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties
- South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate:** DNRRRSCR@wisconsin.gov
 Columbia, Dane, Dodge, Fond du Lac (City of Waupun only), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties
- Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate:** DNRRRSER@wisconsin.gov
 Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Travis Peterson Kapur

Form 4400-225 (R 06/17)

Page 3 of 3

West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

October 19, 2018

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40176305001	B-1 (2-3.5)	Solid	09/18/18 09:00	09/21/18 15:10
40176305002	B-2 (2-3.5)	Solid	09/18/18 09:30	09/21/18 15:10
40176305003	B-4 (2-3.5)	Solid	09/18/18 10:00	09/21/18 15:10
40176305004	B-12 (2-3.5)	Solid	09/18/18 10:30	09/21/18 15:10
40176305005	B-12 (9.5-11)	Solid	09/18/18 10:45	09/21/18 15:10
40176305006	B-16 (2-3.5)	Solid	09/18/18 11:00	09/21/18 15:10
40176305007	B-17 (6"-2.5)	Solid	09/18/18 11:30	09/21/18 15:10
40176305008	B-18 (6"-2)	Solid	09/18/18 12:00	09/21/18 15:10
40176305009	B-18 (9.5-11)	Solid	09/18/18 12:15	09/21/18 15:10
40176305010	B-19 (6"-3.5)	Solid	09/18/18 12:30	09/21/18 15:10
40176305011	B-20 (6"-3.5)	Solid	09/18/18 13:00	09/21/18 15:10
40176305012	B-21 (2-3.5)	Solid	09/18/18 13:30	09/21/18 15:10
40176305013	B-21 (14.5-16)	Solid	09/18/18 13:45	09/21/18 15:10
40176305014	B-23 (6"-2)	Solid	09/18/18 14:00	09/21/18 15:10
40176305015	B-23 (12-13.5)	Solid	09/18/18 14:45	09/21/18 15:10

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40176305001	B-1 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305002	B-2 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305003	B-4 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305004	B-12 (2-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305005	B-12 (9.5-11)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305006	B-16 (2-3.5)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305007	B-17 (6"-2.5)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
40176305008	B-18 (6"-2)	ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40176305009	B-18 (9.5-11)	EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40176305010	B-19 (6"-3.5)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305011	B-20 (6"-3.5)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40176305012	B-21 (2-3.5)	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	3	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40176305013	B-21 (14.5-16)	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
40176305014	B-23 (6"-2)	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40176305015	B-23 (12-13.5)	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	JXM	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305001	B-1 (2-3.5)					
EPA 6010	Arsenic	8.0	mg/kg	5.9	09/28/18 10:09	
EPA 6010	Barium	72.1	mg/kg	0.59	09/28/18 10:09	
EPA 6010	Cadmium	0.27J	mg/kg	0.59	09/28/18 10:09	
EPA 6010	Chromium	20.5	mg/kg	1.2	09/28/18 10:09	
EPA 6010	Lead	10.3	mg/kg	2.4	09/28/18 10:09	
EPA 8260	Methylene Chloride	70.3J	ug/kg	71.6	09/25/18 12:02	B
ASTM D2974-87	Percent Moisture	16.2	%	0.10	09/25/18 14:48	
40176305002	B-2 (2-3.5)					
EPA 6010	Arsenic	2.4J	mg/kg	5.2	09/28/18 10:17	
EPA 6010	Barium	8.2	mg/kg	0.52	09/28/18 10:17	
EPA 6010	Chromium	7.7	mg/kg	1.0	09/28/18 10:17	
EPA 6010	Lead	3.4	mg/kg	2.1	09/28/18 10:17	
EPA 8260	Methylene Chloride	66.4	ug/kg	63.9	09/25/18 12:25	B
ASTM D2974-87	Percent Moisture	6.1	%	0.10	09/25/18 14:48	
40176305003	B-4 (2-3.5)					
EPA 6010	Arsenic	4.3J	mg/kg	5.9	09/28/18 10:19	
EPA 6010	Barium	46.6	mg/kg	0.59	09/28/18 10:19	
EPA 6010	Cadmium	0.17J	mg/kg	0.59	09/28/18 10:19	
EPA 6010	Chromium	18.7	mg/kg	1.2	09/28/18 10:19	
EPA 6010	Lead	9.1	mg/kg	2.3	09/28/18 10:19	
EPA 8270 by SIM	Naphthalene	11.1J	ug/kg	33.7	09/25/18 15:08	
EPA 8260	Methylene Chloride	65.8J	ug/kg	72.0	09/25/18 12:48	B
ASTM D2974-87	Percent Moisture	16.7	%	0.10	09/25/18 14:48	
40176305004	B-12 (2-3.5)					
EPA 6010	Arsenic	7.7	mg/kg	5.6	09/28/18 10:22	
EPA 6010	Barium	180	mg/kg	0.56	09/28/18 10:22	
EPA 6010	Cadmium	0.65	mg/kg	0.56	09/28/18 10:22	
EPA 6010	Chromium	12.2	mg/kg	1.1	09/28/18 10:22	
EPA 6010	Lead	429	mg/kg	2.2	09/28/18 10:22	
EPA 6010	Lead	2.9	mg/L	0.098	10/18/18 11:11	
EPA 7471	Mercury	0.040J	mg/kg	0.13	09/26/18 09:46	
EPA 8270 by SIM	Acenaphthene	4.5J	ug/kg	14.7	09/26/18 15:40	
EPA 8270 by SIM	Acenaphthylene	4.8J	ug/kg	12.5	09/26/18 15:40	
EPA 8270 by SIM	Anthracene	19.2J	ug/kg	21.6	09/26/18 15:40	
EPA 8270 by SIM	Benzo(a)anthracene	82.7	ug/kg	12.1	09/26/18 15:40	
EPA 8270 by SIM	Benzo(a)pyrene	84.6	ug/kg	9.5	09/26/18 15:40	
EPA 8270 by SIM	Benzo(b)fluoranthene	166	ug/kg	10.7	09/26/18 15:40	
EPA 8270 by SIM	Benzo(g,h,i)perylene	57.7	ug/kg	7.7	09/26/18 15:40	
EPA 8270 by SIM	Benzo(k)fluoranthene	46.2	ug/kg	9.5	09/26/18 15:40	
EPA 8270 by SIM	Chrysene	133	ug/kg	12.8	09/26/18 15:40	
EPA 8270 by SIM	Dibenz(a,h)anthracene	20.8	ug/kg	8.5	09/26/18 15:40	
EPA 8270 by SIM	Fluoranthene	171	ug/kg	19.8	09/26/18 15:40	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	44.3	ug/kg	8.4	09/26/18 15:40	
EPA 8270 by SIM	1-Methylnaphthalene	14.9J	ug/kg	15.3	09/26/18 15:40	
EPA 8270 by SIM	2-Methylnaphthalene	21.5	ug/kg	19.0	09/26/18 15:40	
EPA 8270 by SIM	Naphthalene	29.7J	ug/kg	32.0	09/26/18 15:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40176305004	B-12 (2-3.5)					
EPA 8270 by SIM	Phenanthrene	79.9	ug/kg	44.2	09/26/18 15:40	
EPA 8270 by SIM	Pyrene	122	ug/kg	17.1	09/26/18 15:40	
EPA 8260	1,2,4-Trimethylbenzene	35.4J	ug/kg	68.3	09/25/18 13:12	
EPA 8260	1,2-Dichlorobenzene	332	ug/kg	68.3	09/25/18 13:12	
EPA 8260	1,2-Dichloroethane	39.6J	ug/kg	68.3	09/25/18 13:12	
EPA 8260	1,4-Dichlorobenzene	306	ug/kg	68.3	09/25/18 13:12	
EPA 8260	Chlorobenzene	243	ug/kg	68.3	09/25/18 13:12	
EPA 8260	Methylene Chloride	56.8J	ug/kg	68.3	09/25/18 13:12	B
EPA 8260	Naphthalene	430	ug/kg	284	09/25/18 13:12	
EPA 8260	m&p-Xylene	91.0J	ug/kg	137	09/25/18 13:12	
EPA 8260	o-Xylene	57.1J	ug/kg	68.3	09/25/18 13:12	
ASTM D2974-87	Percent Moisture	12.1	%	0.10	09/25/18 14:48	
40176305005	B-12 (9.5-11)					
EPA 6010	Arsenic	6.4	mg/kg	5.6	09/28/18 10:24	
EPA 6010	Barium	57.6	mg/kg	0.56	09/28/18 10:24	
EPA 6010	Cadmium	0.20J	mg/kg	0.56	09/28/18 10:24	
EPA 6010	Chromium	14.7	mg/kg	1.1	09/28/18 10:24	
EPA 6010	Lead	8.0	mg/kg	2.2	09/28/18 10:24	
EPA 8260	1,2-Dichloroethane	174	ug/kg	71.0	09/25/18 13:35	
EPA 8260	Methylene Chloride	66.0J	ug/kg	71.0	09/25/18 13:35	B
ASTM D2974-87	Percent Moisture	15.5	%	0.10	09/25/18 14:48	
40176305006	B-16 (2-3.5)					
EPA 6010	Arsenic	5.4	mg/kg	5.3	09/28/18 10:27	
EPA 6010	Barium	52.3	mg/kg	0.53	09/28/18 10:27	
EPA 6010	Cadmium	0.20J	mg/kg	0.53	09/28/18 10:27	
EPA 6010	Chromium	15.9	mg/kg	1.1	09/28/18 10:27	
EPA 6010	Lead	7.9	mg/kg	2.1	09/28/18 10:27	
EPA 8260	Methylene Chloride	56.3J	ug/kg	70.8	09/25/18 13:58	B
ASTM D2974-87	Percent Moisture	15.3	%	0.10	09/25/18 14:48	
40176305007	B-17 (6"-2.5)					
EPA 6010	Arsenic	4.0J	mg/kg	5.4	09/28/18 10:34	
EPA 6010	Barium	11.7	mg/kg	0.54	09/28/18 10:34	
EPA 6010	Chromium	8.4	mg/kg	1.1	09/28/18 10:34	
EPA 6010	Lead	3.8	mg/kg	2.2	09/28/18 10:34	
EPA 8270 by SIM	Benzo(a)anthracene	20.4	ug/kg	11.8	09/26/18 15:58	
EPA 8270 by SIM	Benzo(a)pyrene	22.5	ug/kg	9.3	09/26/18 15:58	
EPA 8270 by SIM	Benzo(b)fluoranthene	33.6	ug/kg	10.4	09/26/18 15:58	
EPA 8270 by SIM	Benzo(g,h,i)perylene	12.9	ug/kg	7.5	09/26/18 15:58	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.0	ug/kg	9.3	09/26/18 15:58	
EPA 8270 by SIM	Chrysene	27.7	ug/kg	12.4	09/26/18 15:58	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.7J	ug/kg	8.3	09/26/18 15:58	
EPA 8270 by SIM	Fluoranthene	53.5	ug/kg	19.3	09/26/18 15:58	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	10.2	ug/kg	8.1	09/26/18 15:58	
EPA 8270 by SIM	Pyrene	43.3	ug/kg	16.6	09/26/18 15:58	
EPA 8260	Methylene Chloride	67.5	ug/kg	66.6	09/25/18 14:21	B
ASTM D2974-87	Percent Moisture	9.9	%	0.10	09/25/18 14:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305008	B-18 (6"-2)					
EPA 6010	Arsenic	4.1J	mg/kg	10.2	10/02/18 18:18	D3
EPA 6010	Barium	14.7	mg/kg	1.0	10/02/18 18:18	
EPA 6010	Chromium	6.9	mg/kg	2.0	10/02/18 18:18	
EPA 6010	Lead	4.1	mg/kg	4.1	10/02/18 18:18	
EPA 8270 by SIM	Benzo(a)anthracene	19.8	ug/kg	11.2	09/26/18 16:15	
EPA 8270 by SIM	Benzo(a)pyrene	22.5	ug/kg	8.9	09/26/18 16:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	30.1	ug/kg	10	09/26/18 16:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	13.4	ug/kg	7.2	09/26/18 16:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	13.8	ug/kg	8.9	09/26/18 16:15	
EPA 8270 by SIM	Chrysene	20.2	ug/kg	11.9	09/26/18 16:15	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.3J	ug/kg	7.9	09/26/18 16:15	
EPA 8270 by SIM	Fluoranthene	37.6	ug/kg	18.4	09/26/18 16:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	10.2	ug/kg	7.8	09/26/18 16:15	
EPA 8270 by SIM	Pyrene	31.8	ug/kg	15.9	09/26/18 16:15	
EPA 8260	Methylene Chloride	51.6J	ug/kg	63.5	09/25/18 14:44	B
ASTM D2974-87	Percent Moisture	5.5	%	0.10	09/25/18 14:48	
40176305009	B-18 (9.5-11)					
EPA 6010	Arsenic	4.9J	mg/kg	10.3	10/02/18 18:20	D3
EPA 6010	Barium	45.2	mg/kg	1.0	10/02/18 18:20	
EPA 6010	Chromium	9.0	mg/kg	2.1	10/02/18 18:20	
EPA 6010	Lead	5.2	mg/kg	4.1	10/02/18 18:20	
EPA 8270 by SIM	Acenaphthene	5.3J	ug/kg	14.4	09/26/18 16:32	
EPA 8270 by SIM	Anthracene	12.1J	ug/kg	21.2	09/26/18 16:32	
EPA 8270 by SIM	Benzo(a)anthracene	19.8	ug/kg	11.8	09/26/18 16:32	
EPA 8270 by SIM	Benzo(a)pyrene	15.1	ug/kg	9.3	09/26/18 16:32	
EPA 8270 by SIM	Benzo(b)fluoranthene	24.8	ug/kg	10.5	09/26/18 16:32	
EPA 8270 by SIM	Benzo(g,h,i)perylene	7.0J	ug/kg	7.6	09/26/18 16:32	
EPA 8270 by SIM	Benzo(k)fluoranthene	9.8	ug/kg	9.3	09/26/18 16:32	
EPA 8270 by SIM	Chrysene	26.9	ug/kg	12.5	09/26/18 16:32	
EPA 8270 by SIM	Fluoranthene	78.1	ug/kg	19.4	09/26/18 16:32	
EPA 8270 by SIM	Fluorene	5.4J	ug/kg	15.4	09/26/18 16:32	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	5.9J	ug/kg	8.2	09/26/18 16:32	
EPA 8270 by SIM	Phenanthrene	50.8	ug/kg	43.3	09/26/18 16:32	
EPA 8270 by SIM	Pyrene	51.9	ug/kg	16.7	09/26/18 16:32	
EPA 8260	Methylene Chloride	63.8J	ug/kg	66.9	09/25/18 15:07	B
ASTM D2974-87	Percent Moisture	10.3	%	0.10	09/25/18 14:49	
40176305010	B-19 (6"-3.5)					
EPA 6010	Arsenic	5.3J	mg/kg	10.8	10/02/18 18:23	D3
EPA 6010	Barium	12.9	mg/kg	1.1	10/02/18 18:23	
EPA 6010	Chromium	7.6	mg/kg	2.2	10/02/18 18:23	
EPA 6010	Lead	1.9J	mg/kg	4.3	10/02/18 18:23	D3
EPA 8270 by SIM	Acenaphthene	12.7J	ug/kg	14.7	09/26/18 16:50	
EPA 8270 by SIM	Acenaphthylene	5.4J	ug/kg	12.6	09/26/18 16:50	
EPA 8270 by SIM	Anthracene	44.9	ug/kg	21.7	09/26/18 16:50	
EPA 8270 by SIM	Benzo(a)anthracene	136	ug/kg	12.1	09/26/18 16:50	
EPA 8270 by SIM	Benzo(a)pyrene	142	ug/kg	9.6	09/26/18 16:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40176305010	B-19 (6"-3.5)					
EPA 8270 by SIM	Benzo(b)fluoranthene	234	ug/kg	10.7	09/26/18 16:50	
EPA 8270 by SIM	Benzo(g,h,i)perylene	61.2	ug/kg	7.7	09/26/18 16:50	
EPA 8270 by SIM	Benzo(k)fluoranthene	77.4	ug/kg	9.5	09/26/18 16:50	
EPA 8270 by SIM	Chrysene	173	ug/kg	12.8	09/26/18 16:50	
EPA 8270 by SIM	Dibenz(a,h)anthracene	15.9	ug/kg	8.5	09/26/18 16:50	
EPA 8270 by SIM	Fluoranthene	360	ug/kg	19.9	09/26/18 16:50	
EPA 8270 by SIM	Fluorene	11.3J	ug/kg	15.8	09/26/18 16:50	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	41.2	ug/kg	8.4	09/26/18 16:50	
EPA 8270 by SIM	1-Methylnaphthalene	13.7J	ug/kg	15.3	09/26/18 16:50	
EPA 8270 by SIM	2-Methylnaphthalene	20.9	ug/kg	19.1	09/26/18 16:50	
EPA 8270 by SIM	Phenanthrene	212	ug/kg	44.3	09/26/18 16:50	
EPA 8270 by SIM	Pyrene	271	ug/kg	17.1	09/26/18 16:50	
EPA 8260	Methylene Chloride	57.3J	ug/kg	68.6	09/25/18 15:30	B
ASTM D2974-87	Percent Moisture	12.5	%	0.10	09/25/18 14:49	
40176305011	B-20 (6"-3.5)					
EPA 6010	Arsenic	5.9J	mg/kg	10.5	10/02/18 18:25	D3
EPA 6010	Barium	8.9	mg/kg	1.0	10/02/18 18:25	
EPA 6010	Chromium	4.5	mg/kg	2.1	10/02/18 18:25	
EPA 6010	Lead	7.0	mg/kg	4.2	10/02/18 18:25	
EPA 8270 by SIM	Anthracene	7.9J	ug/kg	20.2	09/26/18 17:07	
EPA 8270 by SIM	Benzo(a)anthracene	26.1	ug/kg	11.3	09/26/18 17:07	
EPA 8270 by SIM	Benzo(a)pyrene	26.5	ug/kg	8.9	09/26/18 17:07	
EPA 8270 by SIM	Benzo(b)fluoranthene	41.4	ug/kg	10.0	09/26/18 17:07	
EPA 8270 by SIM	Benzo(g,h,i)perylene	10.5	ug/kg	7.2	09/26/18 17:07	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.6	ug/kg	8.9	09/26/18 17:07	
EPA 8270 by SIM	Chrysene	34.1	ug/kg	11.9	09/26/18 17:07	
EPA 8270 by SIM	Dibenz(a,h)anthracene	2.8J	ug/kg	7.9	09/26/18 17:07	
EPA 8270 by SIM	Fluoranthene	60.9	ug/kg	18.5	09/26/18 17:07	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	7.4J	ug/kg	7.8	09/26/18 17:07	
EPA 8270 by SIM	Phenanthrene	32.6J	ug/kg	41.3	09/26/18 17:07	
EPA 8270 by SIM	Pyrene	46.9	ug/kg	16.0	09/26/18 17:07	
EPA 8260	Methylene Chloride	44.0J	ug/kg	63.9	09/25/18 16:06	B
ASTM D2974-87	Percent Moisture	6.1	%	0.10	09/25/18 14:49	
40176305012	B-21 (2-3.5)					
EPA 6010	Arsenic	9.1	mg/kg	5.6	09/28/18 10:46	
EPA 6010	Barium	660	mg/kg	0.56	09/28/18 10:46	
EPA 6010	Cadmium	104	mg/kg	0.56	09/28/18 10:46	
EPA 6010	Chromium	214	mg/kg	1.1	09/28/18 10:46	
EPA 6010	Lead	8250	mg/kg	225	10/02/18 18:28	
EPA 6010	Selenium	3.9J	mg/kg	4.9	09/28/18 10:46	
EPA 6010	Silver	1.1	mg/kg	1.1	09/28/18 10:46	
EPA 6010	Cadmium	0.28	mg/L	0.025	10/18/18 11:18	
EPA 6010	Lead	4.1	mg/L	0.098	10/18/18 11:18	
EPA 7471	Mercury	0.22	mg/kg	0.13	09/26/18 10:04	
EPA 8270 by SIM	Acenaphthene	538	ug/kg	297	09/26/18 13:06	
EPA 8270 by SIM	Acenaphthylene	90.8J	ug/kg	253	09/26/18 13:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40176305012	B-21 (2-3.5)					
EPA 8270 by SIM	Anthracene	1400	ug/kg	438	09/26/18 13:06	
EPA 8270 by SIM	Benzo(a)anthracene	2090	ug/kg	244	09/26/18 13:06	
EPA 8270 by SIM	Benzo(a)pyrene	2190	ug/kg	193	09/26/18 13:06	
EPA 8270 by SIM	Benzo(b)fluoranthene	2740	ug/kg	217	09/26/18 13:06	
EPA 8270 by SIM	Benzo(g,h,i)perylene	1560	ug/kg	156	09/26/18 13:06	
EPA 8270 by SIM	Benzo(k)fluoranthene	1230	ug/kg	193	09/26/18 13:06	
EPA 8270 by SIM	Chrysene	2410	ug/kg	258	09/26/18 13:06	
EPA 8270 by SIM	Dibenz(a,h)anthracene	306	ug/kg	172	09/26/18 13:06	
EPA 8270 by SIM	Fluoranthene	6770	ug/kg	401	09/26/18 13:06	
EPA 8270 by SIM	Fluorene	756	ug/kg	318	09/26/18 13:06	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	1190	ug/kg	169	09/26/18 13:06	
EPA 8270 by SIM	1-Methylnaphthalene	323	ug/kg	309	09/26/18 13:06	
EPA 8270 by SIM	2-Methylnaphthalene	564	ug/kg	385	09/26/18 13:06	
EPA 8270 by SIM	Naphthalene	1090	ug/kg	647	09/26/18 13:06	
EPA 8270 by SIM	Phenanthrene	4110	ug/kg	894	09/26/18 13:06	
EPA 8270 by SIM	Pyrene	5080	ug/kg	346	09/26/18 13:06	
EPA 8260	1,2,4-Trichlorobenzene	102J	ug/kg	288	09/25/18 16:29	
EPA 8260	1,2,4-Trimethylbenzene	77.3	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,2-Dichlorobenzene	1290	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,3,5-Trimethylbenzene	44.4J	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,3-Dichlorobenzene	88.4	ug/kg	69.2	09/25/18 16:29	
EPA 8260	1,4-Dichlorobenzene	1170	ug/kg	69.2	09/25/18 16:29	
EPA 8260	Chlorobenzene	1430	ug/kg	69.2	09/25/18 16:29	
EPA 8260	Ethylbenzene	130	ug/kg	69.2	09/25/18 16:29	
EPA 8260	Methylene Chloride	60.1J	ug/kg	69.2	09/25/18 16:29	B
EPA 8260	Naphthalene	1140	ug/kg	288	09/25/18 16:29	
EPA 8260	Toluene	136	ug/kg	69.2	09/25/18 16:29	
EPA 8260	m&p-Xylene	254	ug/kg	138	09/25/18 16:29	
EPA 8260	n-Butylbenzene	40.6J	ug/kg	69.2	09/25/18 16:29	
EPA 8260	o-Xylene	134	ug/kg	69.2	09/25/18 16:29	
ASTM D2974-87	Percent Moisture	13.3	%	0.10	09/25/18 14:49	
40176305013	B-21 (14.5-16)					
EPA 6010	Arsenic	6.4	mg/kg	5.8	09/28/18 10:49	
EPA 6010	Barium	61.9	mg/kg	0.58	09/28/18 10:49	
EPA 6010	Cadmium	0.39J	mg/kg	0.58	09/28/18 10:49	
EPA 6010	Chromium	16.6	mg/kg	1.2	09/28/18 10:49	
EPA 6010	Lead	17.9	mg/kg	2.3	09/28/18 10:49	
EPA 8270 by SIM	Acenaphthene	884	ug/kg	382	09/26/18 12:31	
EPA 8270 by SIM	Acenaphthylene	207J	ug/kg	326	09/26/18 12:31	
EPA 8270 by SIM	Anthracene	384J	ug/kg	563	09/26/18 12:31	
EPA 8270 by SIM	Fluorene	996	ug/kg	409	09/26/18 12:31	
EPA 8270 by SIM	1-Methylnaphthalene	9270	ug/kg	397	09/26/18 12:31	
EPA 8270 by SIM	2-Methylnaphthalene	16900	ug/kg	495	09/26/18 12:31	
EPA 8270 by SIM	Naphthalene	3510	ug/kg	832	09/26/18 12:31	
EPA 8270 by SIM	Phenanthrene	3260	ug/kg	1150	09/26/18 12:31	
EPA 8270 by SIM	Pyrene	175J	ug/kg	444	09/26/18 12:31	
EPA 8260	Methylene Chloride	49.8J	ug/kg	71.0	09/25/18 16:52	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40176305013	B-21 (14.5-16)					
EPA 8260	Naphthalene	106J	ug/kg	296	09/25/18 16:52	
ASTM D2974-87	Percent Moisture	15.5	%	0.10	09/25/18 14:49	
40176305014	B-23 (6"-2)					
EPA 6010	Arsenic	5.2J	mg/kg	5.4	09/28/18 10:51	
EPA 6010	Barium	66.8	mg/kg	0.54	09/28/18 10:51	
EPA 6010	Cadmium	0.36J	mg/kg	0.54	09/28/18 10:51	
EPA 6010	Chromium	18.2	mg/kg	1.1	09/28/18 10:51	
EPA 6010	Lead	50.3	mg/kg	2.2	09/28/18 10:51	
EPA 7471	Mercury	0.069J	mg/kg	0.12	09/26/18 10:13	
EPA 8270 by SIM	Acenaphthene	185	ug/kg	57.6	09/26/18 14:49	
EPA 8270 by SIM	Acenaphthylene	34.0J	ug/kg	49.1	09/26/18 14:49	
EPA 8270 by SIM	Anthracene	322	ug/kg	84.8	09/26/18 14:49	
EPA 8270 by SIM	Benzo(a)anthracene	729	ug/kg	47.3	09/26/18 14:49	
EPA 8270 by SIM	Benzo(a)pyrene	744	ug/kg	37.4	09/26/18 14:49	
EPA 8270 by SIM	Benzo(b)fluoranthene	905	ug/kg	42.0	09/26/18 14:49	
EPA 8270 by SIM	Benzo(g,h,i)perylene	420	ug/kg	30.2	09/26/18 14:49	
EPA 8270 by SIM	Benzo(k)fluoranthene	425	ug/kg	37.3	09/26/18 14:49	
EPA 8270 by SIM	Chrysene	827	ug/kg	50.0	09/26/18 14:49	
EPA 8270 by SIM	Dibenz(a,h)anthracene	111	ug/kg	33.3	09/26/18 14:49	
EPA 8270 by SIM	Fluoranthene	1630	ug/kg	77.7	09/26/18 14:49	
EPA 8270 by SIM	Fluorene	26.2J	ug/kg	61.6	09/26/18 14:49	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	369	ug/kg	32.7	09/26/18 14:49	
EPA 8270 by SIM	1-Methylnaphthalene	37.7J	ug/kg	59.8	09/26/18 14:49	
EPA 8270 by SIM	Phenanthrene	576	ug/kg	173	09/26/18 14:49	
EPA 8270 by SIM	Pyrene	1220	ug/kg	67.0	09/26/18 14:49	
EPA 8260	Methylene Chloride	64.1J	ug/kg	67.0	09/25/18 19:11	B
ASTM D2974-87	Percent Moisture	10.4	%	0.10	09/25/18 14:49	
40176305015	B-23 (12-13.5)					
EPA 6010	Arsenic	4.8J	mg/kg	5.5	09/28/18 10:54	
EPA 6010	Barium	75.2	mg/kg	0.55	09/28/18 10:54	
EPA 6010	Cadmium	0.25J	mg/kg	0.55	09/28/18 10:54	
EPA 6010	Chromium	20.7	mg/kg	1.1	09/28/18 10:54	
EPA 6010	Lead	11.7	mg/kg	2.2	09/28/18 10:54	
EPA 8270 by SIM	Benzo(a)anthracene	5.6J	ug/kg	12.8	09/26/18 11:40	
EPA 8270 by SIM	Fluoranthene	6.6J	ug/kg	21.1	09/26/18 11:40	
EPA 8270 by SIM	Pyrene	5.8J	ug/kg	18.2	09/26/18 11:40	
EPA 8260	1,2-Dichloroethane	115	ug/kg	72.7	09/25/18 17:15	
EPA 8260	Methylene Chloride	59.7J	ug/kg	72.7	09/25/18 17:15	B
ASTM D2974-87	Percent Moisture	17.4	%	0.10	09/25/18 14:49	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-1 (2-3.5) **Lab ID: 40176305001** Collected: 09/18/18 09:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	8.0	mg/kg	5.9	1.2	1	09/26/18 07:12	09/28/18 10:09	7440-38-2	
Barium	72.1	mg/kg	0.59	0.18	1	09/26/18 07:12	09/28/18 10:09	7440-39-3	
Cadmium	0.27J	mg/kg	0.59	0.16	1	09/26/18 07:12	09/28/18 10:09	7440-43-9	
Chromium	20.5	mg/kg	1.2	0.33	1	09/26/18 07:12	09/28/18 10:09	7440-47-3	
Lead	10.3	mg/kg	2.4	0.71	1	09/26/18 07:12	09/28/18 10:09	7439-92-1	
Selenium	<1.6	mg/kg	5.2	1.6	1	09/26/18 07:12	09/28/18 10:09	7782-49-2	
Silver	<0.41	mg/kg	1.2	0.41	1	09/26/18 07:12	09/28/18 10:09	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.037	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 09:34	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.4	4.6	1	09/25/18 08:51	09/25/18 14:34	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.1	3.9	1	09/25/18 08:51	09/25/18 14:34	208-96-8	
Anthracene	<6.8	ug/kg	22.6	6.8	1	09/25/18 08:51	09/25/18 14:34	120-12-7	
Benzo(a)anthracene	<3.8	ug/kg	12.6	3.8	1	09/25/18 08:51	09/25/18 14:34	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	10	3.0	1	09/25/18 08:51	09/25/18 14:34	50-32-8	
Benzo(b)fluoranthene	<3.4	ug/kg	11.2	3.4	1	09/25/18 08:51	09/25/18 14:34	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.1	2.4	1	09/25/18 08:51	09/25/18 14:34	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	10	3.0	1	09/25/18 08:51	09/25/18 14:34	207-08-9	
Chrysene	<4.0	ug/kg	13.3	4.0	1	09/25/18 08:51	09/25/18 14:34	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 14:34	53-70-3	
Fluoranthene	<6.2	ug/kg	20.7	6.2	1	09/25/18 08:51	09/25/18 14:34	206-44-0	
Fluorene	<4.9	ug/kg	16.4	4.9	1	09/25/18 08:51	09/25/18 14:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.7	2.6	1	09/25/18 08:51	09/25/18 14:34	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	16.0	4.8	1	09/25/18 08:51	09/25/18 14:34	90-12-0	
2-Methylnaphthalene	<6.0	ug/kg	19.9	6.0	1	09/25/18 08:51	09/25/18 14:34	91-57-6	
Naphthalene	<10.0	ug/kg	33.5	10.0	1	09/25/18 08:51	09/25/18 14:34	91-20-3	
Phenanthrene	<13.9	ug/kg	46.2	13.9	1	09/25/18 08:51	09/25/18 14:34	85-01-8	
Pyrene	<5.4	ug/kg	17.9	5.4	1	09/25/18 08:51	09/25/18 14:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	10-115		1	09/25/18 08:51	09/25/18 14:34	321-60-8	
Terphenyl-d14 (S)	53	%	10-121		1	09/25/18 08:51	09/25/18 14:34	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 12:02	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-1 (2-3.5) **Lab ID: 40176305001** Collected: 09/18/18 09:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 12:02	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 12:02	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 12:02	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 12:02	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	1634-04-4	W
Methylene Chloride	70.3J	ug/kg	71.6	29.8	1	09/25/18 08:00	09/25/18 12:02	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 12:02	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 12:02	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-1 (2-3.5) **Lab ID: 40176305001** Collected: 09/18/18 09:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:02	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-148		1	09/25/18 08:00	09/25/18 12:02	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	09/25/18 08:00	09/25/18 12:02	2037-26-5	
4-Bromofluorobenzene (S)	84	%	48-130		1	09/25/18 08:00	09/25/18 12:02	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.2	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-2 (2-3.5) **Lab ID: 40176305002** Collected: 09/18/18 09:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.4J	mg/kg	5.2	1.1	1	09/26/18 07:12	09/28/18 10:17	7440-38-2	
Barium	8.2	mg/kg	0.52	0.16	1	09/26/18 07:12	09/28/18 10:17	7440-39-3	
Cadmium	<0.14	mg/kg	0.52	0.14	1	09/26/18 07:12	09/28/18 10:17	7440-43-9	
Chromium	7.7	mg/kg	1.0	0.29	1	09/26/18 07:12	09/28/18 10:17	7440-47-3	
Lead	3.4	mg/kg	2.1	0.62	1	09/26/18 07:12	09/28/18 10:17	7439-92-1	
Selenium	<1.4	mg/kg	4.5	1.4	1	09/26/18 07:12	09/28/18 10:17	7782-49-2	
Silver	<0.36	mg/kg	1.0	0.36	1	09/26/18 07:12	09/28/18 10:17	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.036	mg/kg	0.12	0.036	1	09/25/18 12:34	09/26/18 09:36	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.1	ug/kg	13.7	4.1	1	09/25/18 08:51	09/25/18 14:51	83-32-9	
Acenaphthylene	<3.5	ug/kg	11.7	3.5	1	09/25/18 08:51	09/25/18 14:51	208-96-8	
Anthracene	<6.1	ug/kg	20.2	6.1	1	09/25/18 08:51	09/25/18 14:51	120-12-7	
Benzo(a)anthracene	<3.4	ug/kg	11.3	3.4	1	09/25/18 08:51	09/25/18 14:51	56-55-3	
Benzo(a)pyrene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 14:51	50-32-8	
Benzo(b)fluoranthene	<3.0	ug/kg	10.0	3.0	1	09/25/18 08:51	09/25/18 14:51	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	7.2	2.2	1	09/25/18 08:51	09/25/18 14:51	191-24-2	
Benzo(k)fluoranthene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 14:51	207-08-9	
Chrysene	<3.6	ug/kg	11.9	3.6	1	09/25/18 08:51	09/25/18 14:51	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	7.9	2.4	1	09/25/18 08:51	09/25/18 14:51	53-70-3	
Fluoranthene	<5.5	ug/kg	18.5	5.5	1	09/25/18 08:51	09/25/18 14:51	206-44-0	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-2 (2-3.5) **Lab ID: 40176305002** Collected: 09/18/18 09:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	<4.4	ug/kg	14.7	4.4	1	09/25/18 08:51	09/25/18 14:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.3	ug/kg	7.8	2.3	1	09/25/18 08:51	09/25/18 14:51	193-39-5	
1-Methylnaphthalene	<4.3	ug/kg	14.3	4.3	1	09/25/18 08:51	09/25/18 14:51	90-12-0	
2-Methylnaphthalene	<5.3	ug/kg	17.8	5.3	1	09/25/18 08:51	09/25/18 14:51	91-57-6	
Naphthalene	<9.0	ug/kg	29.9	9.0	1	09/25/18 08:51	09/25/18 14:51	91-20-3	
Phenanthrene	<12.4	ug/kg	41.3	12.4	1	09/25/18 08:51	09/25/18 14:51	85-01-8	
Pyrene	<4.8	ug/kg	16.0	4.8	1	09/25/18 08:51	09/25/18 14:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	10-115		1	09/25/18 08:51	09/25/18 14:51	321-60-8	
Terphenyl-d14 (S)	47	%	10-121		1	09/25/18 08:51	09/25/18 14:51	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 12:25	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 12:25	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 12:25	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 12:25	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 12:25	67-66-3	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-2 (2-3.5) Lab ID: 40176305002 Collected: 09/18/18 09:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	1634-04-4	W
Methylene Chloride	66.4	ug/kg	63.9	26.6	1	09/25/18 08:00	09/25/18 12:25	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 12:25	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 12:25	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:25	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	145	%	57-148		1	09/25/18 08:00	09/25/18 12:25	1868-53-7	
Toluene-d8 (S)	138	%	58-142		1	09/25/18 08:00	09/25/18 12:25	2037-26-5	
4-Bromofluorobenzene (S)	114	%	48-130		1	09/25/18 08:00	09/25/18 12:25	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	6.1	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-4 (2-3.5) Lab ID: 40176305003 Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.3J	mg/kg	5.9	1.2	1	09/26/18 07:12	09/28/18 10:19	7440-38-2	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-4 (2-3.5) **Lab ID: 40176305003** Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	46.6	mg/kg	0.59	0.18	1	09/26/18 07:12	09/28/18 10:19	7440-39-3	
Cadmium	0.17J	mg/kg	0.59	0.16	1	09/26/18 07:12	09/28/18 10:19	7440-43-9	
Chromium	18.7	mg/kg	1.2	0.33	1	09/26/18 07:12	09/28/18 10:19	7440-47-3	
Lead	9.1	mg/kg	2.3	0.70	1	09/26/18 07:12	09/28/18 10:19	7439-92-1	
Selenium	<1.5	mg/kg	5.1	1.5	1	09/26/18 07:12	09/28/18 10:19	7782-49-2	
Silver	<0.40	mg/kg	1.2	0.40	1	09/26/18 07:12	09/28/18 10:19	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.038	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 09:39	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.7	ug/kg	15.5	4.7	1	09/25/18 08:51	09/25/18 15:08	83-32-9	
Acenaphthylene	<4.0	ug/kg	13.2	4.0	1	09/25/18 08:51	09/25/18 15:08	208-96-8	
Anthracene	<6.9	ug/kg	22.8	6.9	1	09/25/18 08:51	09/25/18 15:08	120-12-7	
Benzo(a)anthracene	<3.8	ug/kg	12.7	3.8	1	09/25/18 08:51	09/25/18 15:08	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	10.1	3.0	1	09/25/18 08:51	09/25/18 15:08	50-32-8	
Benzo(b)fluoranthene	<3.4	ug/kg	11.3	3.4	1	09/25/18 08:51	09/25/18 15:08	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.1	2.4	1	09/25/18 08:51	09/25/18 15:08	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	10.0	3.0	1	09/25/18 08:51	09/25/18 15:08	207-08-9	
Chrysene	<4.0	ug/kg	13.4	4.0	1	09/25/18 08:51	09/25/18 15:08	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	8.9	2.7	1	09/25/18 08:51	09/25/18 15:08	53-70-3	
Fluoranthene	<6.3	ug/kg	20.9	6.3	1	09/25/18 08:51	09/25/18 15:08	206-44-0	
Fluorene	<5.0	ug/kg	16.6	5.0	1	09/25/18 08:51	09/25/18 15:08	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.8	2.6	1	09/25/18 08:51	09/25/18 15:08	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	16.1	4.8	1	09/25/18 08:51	09/25/18 15:08	90-12-0	
2-Methylnaphthalene	<6.0	ug/kg	20.1	6.0	1	09/25/18 08:51	09/25/18 15:08	91-57-6	
Naphthalene	11.1J	ug/kg	33.7	10.1	1	09/25/18 08:51	09/25/18 15:08	91-20-3	
Phenanthrene	<14.0	ug/kg	46.6	14.0	1	09/25/18 08:51	09/25/18 15:08	85-01-8	
Pyrene	<5.4	ug/kg	18.0	5.4	1	09/25/18 08:51	09/25/18 15:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	10-115		1	09/25/18 08:51	09/25/18 15:08	321-60-8	
Terphenyl-d14 (S)	56	%	10-121		1	09/25/18 08:51	09/25/18 15:08	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 12:48	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-63-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-4 (2-3.5) **Lab ID: 40176305003** Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 12:48	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 12:48	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 12:48	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 12:48	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	1634-04-4	W
Methylene Chloride	65.8J	ug/kg	72.0	30.0	1	09/25/18 08:00	09/25/18 12:48	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 12:48	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 12:48	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	95-47-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-4 (2-3.5) **Lab ID: 40176305003** Collected: 09/18/18 10:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 12:48	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	57-148		1	09/25/18 08:00	09/25/18 12:48	1868-53-7	
Toluene-d8 (S)	110	%	58-142		1	09/25/18 08:00	09/25/18 12:48	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-130		1	09/25/18 08:00	09/25/18 12:48	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.7	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-12 (2-3.5) **Lab ID: 40176305004** Collected: 09/18/18 10:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	7.7	mg/kg	5.6	1.2	1	09/26/18 07:12	09/28/18 10:22	7440-38-2	
Barium	180	mg/kg	0.56	0.17	1	09/26/18 07:12	09/28/18 10:22	7440-39-3	
Cadmium	0.65	mg/kg	0.56	0.15	1	09/26/18 07:12	09/28/18 10:22	7440-43-9	
Chromium	12.2	mg/kg	1.1	0.31	1	09/26/18 07:12	09/28/18 10:22	7440-47-3	
Lead	429	mg/kg	2.2	0.67	1	09/26/18 07:12	09/28/18 10:22	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	09/26/18 07:12	09/28/18 10:22	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	09/26/18 07:12	09/28/18 10:22	7440-22-4	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 10/15/18 14:35									
Lead	2.9	mg/L	0.098	0.030	1	10/17/18 06:44	10/18/18 11:11	7439-92-1	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.040J	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 09:46	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	4.5J	ug/kg	14.7	4.4	1	09/25/18 08:51	09/26/18 15:40	83-32-9	
Acenaphthylene	4.8J	ug/kg	12.5	3.8	1	09/25/18 08:51	09/26/18 15:40	208-96-8	
Anthracene	19.2J	ug/kg	21.6	6.5	1	09/25/18 08:51	09/26/18 15:40	120-12-7	
Benzo(a)anthracene	82.7	ug/kg	12.1	3.6	1	09/25/18 08:51	09/26/18 15:40	56-55-3	
Benzo(a)pyrene	84.6	ug/kg	9.5	2.9	1	09/25/18 08:51	09/26/18 15:40	50-32-8	
Benzo(b)fluoranthene	166	ug/kg	10.7	3.2	1	09/25/18 08:51	09/26/18 15:40	205-99-2	
Benzo(g,h,i)perylene	57.7	ug/kg	7.7	2.3	1	09/25/18 08:51	09/26/18 15:40	191-24-2	
Benzo(k)fluoranthene	46.2	ug/kg	9.5	2.9	1	09/25/18 08:51	09/26/18 15:40	207-08-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-12 (2-3.5) **Lab ID: 40176305004** Collected: 09/18/18 10:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Chrysene	133	ug/kg	12.8	3.8	1	09/25/18 08:51	09/26/18 15:40	218-01-9	
Dibenz(a,h)anthracene	20.8	ug/kg	8.5	2.5	1	09/25/18 08:51	09/26/18 15:40	53-70-3	
Fluoranthene	171	ug/kg	19.8	5.9	1	09/25/18 08:51	09/26/18 15:40	206-44-0	
Fluorene	<4.7	ug/kg	15.7	4.7	1	09/25/18 08:51	09/26/18 15:40	86-73-7	
Indeno(1,2,3-cd)pyrene	44.3	ug/kg	8.4	2.5	1	09/25/18 08:51	09/26/18 15:40	193-39-5	
1-Methylnaphthalene	14.9J	ug/kg	15.3	4.6	1	09/25/18 08:51	09/26/18 15:40	90-12-0	
2-Methylnaphthalene	21.5	ug/kg	19.0	5.7	1	09/25/18 08:51	09/26/18 15:40	91-57-6	
Naphthalene	29.7J	ug/kg	32.0	9.6	1	09/25/18 08:51	09/26/18 15:40	91-20-3	
Phenanthrene	79.9	ug/kg	44.2	13.3	1	09/25/18 08:51	09/26/18 15:40	85-01-8	
Pyrene	122	ug/kg	17.1	5.1	1	09/25/18 08:51	09/26/18 15:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	10-115		1	09/25/18 08:51	09/26/18 15:40	321-60-8	
Terphenyl-d14 (S)	54	%	10-121		1	09/25/18 08:51	09/26/18 15:40	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 13:12	120-82-1	W
1,2,4-Trimethylbenzene	35.4J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	95-63-6	
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 13:12	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	106-93-4	W
1,2-Dichlorobenzene	332	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	95-50-1	
1,2-Dichloroethane	39.6J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	107-06-2	
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	142-28-9	W
1,4-Dichlorobenzene	306	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	106-46-7	
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 13:12	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (2-3.5) **Lab ID: 40176305004** Collected: 09/18/18 10:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	243	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	108-90-7	
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 13:12	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 13:12	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	1634-04-4	W
Methylene Chloride	56.8J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	75-09-2	B
Naphthalene	430	ug/kg	284	45.6	1	09/25/18 08:00	09/25/18 13:12	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	10061-01-5	W
m&p-Xylene	91.0J	ug/kg	137	56.9	1	09/25/18 08:00	09/25/18 13:12	179601-23-1	
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	103-65-1	W
o-Xylene	57.1J	ug/kg	68.3	28.4	1	09/25/18 08:00	09/25/18 13:12	95-47-6	
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:12	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-148		1	09/25/18 08:00	09/25/18 13:12	1868-53-7	
Toluene-d8 (S)	105	%	58-142		1	09/25/18 08:00	09/25/18 13:12	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	09/25/18 08:00	09/25/18 13:12	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	12.1	%	0.10	0.10	1		09/25/18 14:48		
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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (9.5-11) **Lab ID: 40176305005** Collected: 09/18/18 10:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.4	mg/kg	5.6	1.2	1	09/26/18 07:12	09/28/18 10:24	7440-38-2	
Barium	57.6	mg/kg	0.56	0.17	1	09/26/18 07:12	09/28/18 10:24	7440-39-3	
Cadmium	0.20J	mg/kg	0.56	0.15	1	09/26/18 07:12	09/28/18 10:24	7440-43-9	
Chromium	14.7	mg/kg	1.1	0.31	1	09/26/18 07:12	09/28/18 10:24	7440-47-3	
Lead	8.0	mg/kg	2.2	0.67	1	09/26/18 07:12	09/28/18 10:24	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	09/26/18 07:12	09/28/18 10:24	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	09/26/18 07:12	09/28/18 10:24	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.037	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 09:48	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.3	4.6	1	09/25/18 08:51	09/25/18 15:25	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.0	3.9	1	09/25/18 08:51	09/25/18 15:25	208-96-8	
Anthracene	<6.8	ug/kg	22.5	6.8	1	09/25/18 08:51	09/25/18 15:25	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.5	3.7	1	09/25/18 08:51	09/25/18 15:25	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:25	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	11.1	3.3	1	09/25/18 08:51	09/25/18 15:25	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.0	2.4	1	09/25/18 08:51	09/25/18 15:25	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:25	207-08-9	
Chrysene	<4.0	ug/kg	13.2	4.0	1	09/25/18 08:51	09/25/18 15:25	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.8	2.6	1	09/25/18 08:51	09/25/18 15:25	53-70-3	
Fluoranthene	<6.2	ug/kg	20.6	6.2	1	09/25/18 08:51	09/25/18 15:25	206-44-0	
Fluorene	<4.9	ug/kg	16.3	4.9	1	09/25/18 08:51	09/25/18 15:25	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.7	2.6	1	09/25/18 08:51	09/25/18 15:25	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.8	4.8	1	09/25/18 08:51	09/25/18 15:25	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.7	5.9	1	09/25/18 08:51	09/25/18 15:25	91-57-6	
Naphthalene	<10	ug/kg	33.2	10	1	09/25/18 08:51	09/25/18 15:25	91-20-3	
Phenanthrene	<13.8	ug/kg	45.9	13.8	1	09/25/18 08:51	09/25/18 15:25	85-01-8	
Pyrene	<5.3	ug/kg	17.7	5.3	1	09/25/18 08:51	09/25/18 15:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	09/25/18 08:51	09/25/18 15:25	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/25/18 15:25	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 13:35	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (9.5-11) **Lab ID: 40176305005** Collected: 09/18/18 10:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 13:35	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-50-1	W
1,2-Dichloroethane	174	ug/kg	71.0	29.6	1	09/25/18 08:00	09/25/18 13:35	107-06-2	
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 13:35	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 13:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 13:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	1634-04-4	W
Methylene Chloride	66.0J	ug/kg	71.0	29.6	1	09/25/18 08:00	09/25/18 13:35	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 13:35	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 13:35	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	103-65-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-12 (9.5-11) **Lab ID: 40176305005** Collected: 09/18/18 10:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	57-148		1	09/25/18 08:00	09/25/18 13:35	1868-53-7	
Toluene-d8 (S)	109	%	58-142		1	09/25/18 08:00	09/25/18 13:35	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-130		1	09/25/18 08:00	09/25/18 13:35	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.5	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-16 (2-3.5) **Lab ID: 40176305006** Collected: 09/18/18 11:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.4	mg/kg	5.3	1.1	1	09/26/18 07:12	09/28/18 10:27	7440-38-2	
Barium	52.3	mg/kg	0.53	0.16	1	09/26/18 07:12	09/28/18 10:27	7440-39-3	
Cadmium	0.20J	mg/kg	0.53	0.14	1	09/26/18 07:12	09/28/18 10:27	7440-43-9	
Chromium	15.9	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:27	7440-47-3	
Lead	7.9	mg/kg	2.1	0.64	1	09/26/18 07:12	09/28/18 10:27	7439-92-1	
Selenium	<1.4	mg/kg	4.6	1.4	1	09/26/18 07:12	09/28/18 10:27	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	09/26/18 07:12	09/28/18 10:27	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.038	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 09:50	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.6	ug/kg	15.2	4.6	1	09/25/18 08:51	09/25/18 15:42	83-32-9	
Acenaphthylene	<3.9	ug/kg	13.0	3.9	1	09/25/18 08:51	09/25/18 15:42	208-96-8	
Anthracene	<6.7	ug/kg	22.4	6.7	1	09/25/18 08:51	09/25/18 15:42	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.5	3.7	1	09/25/18 08:51	09/25/18 15:42	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:42	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	11.1	3.3	1	09/25/18 08:51	09/25/18 15:42	205-99-2	
Benzo(g,h,i)perylene	<2.4	ug/kg	8.0	2.4	1	09/25/18 08:51	09/25/18 15:42	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	9.9	3.0	1	09/25/18 08:51	09/25/18 15:42	207-08-9	
Chrysene	<4.0	ug/kg	13.2	4.0	1	09/25/18 08:51	09/25/18 15:42	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.8	2.6	1	09/25/18 08:51	09/25/18 15:42	53-70-3	
Fluoranthene	<6.2	ug/kg	20.6	6.2	1	09/25/18 08:51	09/25/18 15:42	206-44-0	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-16 (2-3.5) **Lab ID: 40176305006** Collected: 09/18/18 11:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	<4.9	ug/kg	16.3	4.9	1	09/25/18 08:51	09/25/18 15:42	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.6	ug/kg	8.7	2.6	1	09/25/18 08:51	09/25/18 15:42	193-39-5	
1-Methylnaphthalene	<4.8	ug/kg	15.8	4.8	1	09/25/18 08:51	09/25/18 15:42	90-12-0	
2-Methylnaphthalene	<5.9	ug/kg	19.7	5.9	1	09/25/18 08:51	09/25/18 15:42	91-57-6	
Naphthalene	<9.9	ug/kg	33.2	9.9	1	09/25/18 08:51	09/25/18 15:42	91-20-3	
Phenanthrene	<13.8	ug/kg	45.8	13.8	1	09/25/18 08:51	09/25/18 15:42	85-01-8	
Pyrene	<5.3	ug/kg	17.7	5.3	1	09/25/18 08:51	09/25/18 15:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	10-115		1	09/25/18 08:51	09/25/18 15:42	321-60-8	
Terphenyl-d14 (S)	50	%	10-121		1	09/25/18 08:51	09/25/18 15:42	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 13:58	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 13:58	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 13:58	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 13:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 13:58	67-66-3	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-16 (2-3.5) **Lab ID: 40176305006** Collected: 09/18/18 11:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	1634-04-4	W
Methylene Chloride	56.3J	ug/kg	70.8	29.5	1	09/25/18 08:00	09/25/18 13:58	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 13:58	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 13:58	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 13:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-148		1	09/25/18 08:00	09/25/18 13:58	1868-53-7	
Toluene-d8 (S)	107	%	58-142		1	09/25/18 08:00	09/25/18 13:58	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	09/25/18 08:00	09/25/18 13:58	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.3	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.0J	mg/kg	5.4	1.1	1	09/26/18 07:12	09/28/18 10:34	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	11.7	mg/kg	0.54	0.16	1	09/26/18 07:12	09/28/18 10:34	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	09/26/18 07:12	09/28/18 10:34	7440-43-9	
Chromium	8.4	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:34	7440-47-3	
Lead	3.8	mg/kg	2.2	0.65	1	09/26/18 07:12	09/28/18 10:34	7439-92-1	
Selenium	<1.4	mg/kg	4.7	1.4	1	09/26/18 07:12	09/28/18 10:34	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	09/26/18 07:12	09/28/18 10:34	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.035	mg/kg	0.12	0.035	1	09/25/18 12:34	09/26/18 09:53	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.3	4.3	1	09/25/18 08:51	09/26/18 15:58	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.2	3.7	1	09/25/18 08:51	09/26/18 15:58	208-96-8	
Anthracene	<6.3	ug/kg	21.1	6.3	1	09/25/18 08:51	09/26/18 15:58	120-12-7	
Benzo(a)anthracene	20.4	ug/kg	11.8	3.5	1	09/25/18 08:51	09/26/18 15:58	56-55-3	
Benzo(a)pyrene	22.5	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 15:58	50-32-8	
Benzo(b)fluoranthene	33.6	ug/kg	10.4	3.1	1	09/25/18 08:51	09/26/18 15:58	205-99-2	
Benzo(g,h,i)perylene	12.9	ug/kg	7.5	2.3	1	09/25/18 08:51	09/26/18 15:58	191-24-2	
Benzo(k)fluoranthene	14.0	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 15:58	207-08-9	
Chrysene	27.7	ug/kg	12.4	3.7	1	09/25/18 08:51	09/26/18 15:58	218-01-9	
Dibenz(a,h)anthracene	3.7J	ug/kg	8.3	2.5	1	09/25/18 08:51	09/26/18 15:58	53-70-3	
Fluoranthene	53.5	ug/kg	19.3	5.8	1	09/25/18 08:51	09/26/18 15:58	206-44-0	
Fluorene	<4.6	ug/kg	15.3	4.6	1	09/25/18 08:51	09/26/18 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	10.2	ug/kg	8.1	2.4	1	09/25/18 08:51	09/26/18 15:58	193-39-5	
1-Methylnaphthalene	<4.5	ug/kg	14.9	4.5	1	09/25/18 08:51	09/26/18 15:58	90-12-0	
2-Methylnaphthalene	<5.5	ug/kg	18.5	5.5	1	09/25/18 08:51	09/26/18 15:58	91-57-6	
Naphthalene	<9.3	ug/kg	31.2	9.3	1	09/25/18 08:51	09/26/18 15:58	91-20-3	
Phenanthrene	<12.9	ug/kg	43.0	12.9	1	09/25/18 08:51	09/26/18 15:58	85-01-8	
Pyrene	43.3	ug/kg	16.6	5.0	1	09/25/18 08:51	09/26/18 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	10-115		1	09/25/18 08:51	09/26/18 15:58	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/26/18 15:58	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 14:21	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-63-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 14:21	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 14:21	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 14:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 14:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	1634-04-4	W
Methylene Chloride	67.5	ug/kg	66.6	27.7	1	09/25/18 08:00	09/25/18 14:21	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 14:21	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 14:21	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	95-47-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-17 (6"-2.5) **Lab ID: 40176305007** Collected: 09/18/18 11:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:21	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-148		1	09/25/18 08:00	09/25/18 14:21	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	09/25/18 08:00	09/25/18 14:21	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-130		1	09/25/18 08:00	09/25/18 14:21	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	9.9	%	0.10	0.10	1		09/25/18 14:48		

Sample: B-18 (6"-2) **Lab ID: 40176305008** Collected: 09/18/18 12:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.1J	mg/kg	10.2	2.1	2	09/26/18 07:12	10/02/18 18:18	7440-38-2	D3
Barium	14.7	mg/kg	1.0	0.31	2	09/26/18 07:12	10/02/18 18:18	7440-39-3	
Cadmium	<0.27	mg/kg	1.0	0.27	2	09/26/18 07:12	10/02/18 18:18	7440-43-9	D3
Chromium	6.9	mg/kg	2.0	0.57	2	09/26/18 07:12	10/02/18 18:18	7440-47-3	
Lead	4.1	mg/kg	4.1	1.2	2	09/26/18 07:12	10/02/18 18:18	7439-92-1	
Selenium	<2.7	mg/kg	8.9	2.7	2	09/26/18 07:12	10/02/18 18:18	7782-49-2	D3
Silver	<0.70	mg/kg	2.0	0.70	2	09/26/18 07:12	10/02/18 18:18	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.034	mg/kg	0.11	0.034	1	09/25/18 12:34	09/26/18 09:55	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.1	ug/kg	13.7	4.1	1	09/25/18 08:51	09/26/18 16:15	83-32-9	
Acenaphthylene	<3.5	ug/kg	11.6	3.5	1	09/25/18 08:51	09/26/18 16:15	208-96-8	
Anthracene	<6.0	ug/kg	20.1	6.0	1	09/25/18 08:51	09/26/18 16:15	120-12-7	
Benzo(a)anthracene	19.8	ug/kg	11.2	3.4	1	09/25/18 08:51	09/26/18 16:15	56-55-3	
Benzo(a)pyrene	22.5	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 16:15	50-32-8	
Benzo(b)fluoranthene	30.1	ug/kg	10	3.0	1	09/25/18 08:51	09/26/18 16:15	205-99-2	
Benzo(g,h,i)perylene	13.4	ug/kg	7.2	2.2	1	09/25/18 08:51	09/26/18 16:15	191-24-2	
Benzo(k)fluoranthene	13.8	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 16:15	207-08-9	
Chrysene	20.2	ug/kg	11.9	3.6	1	09/25/18 08:51	09/26/18 16:15	218-01-9	
Dibenz(a,h)anthracene	3.3J	ug/kg	7.9	2.4	1	09/25/18 08:51	09/26/18 16:15	53-70-3	
Fluoranthene	37.6	ug/kg	18.4	5.5	1	09/25/18 08:51	09/26/18 16:15	206-44-0	
Fluorene	<4.4	ug/kg	14.6	4.4	1	09/25/18 08:51	09/26/18 16:15	86-73-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (6"-2) **Lab ID: 40176305008** Collected: 09/18/18 12:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Indeno(1,2,3-cd)pyrene	10.2	ug/kg	7.8	2.3	1	09/25/18 08:51	09/26/18 16:15	193-39-5	
1-Methylnaphthalene	<4.3	ug/kg	14.2	4.3	1	09/25/18 08:51	09/26/18 16:15	90-12-0	
2-Methylnaphthalene	<5.3	ug/kg	17.7	5.3	1	09/25/18 08:51	09/26/18 16:15	91-57-6	
Naphthalene	<8.9	ug/kg	29.8	8.9	1	09/25/18 08:51	09/26/18 16:15	91-20-3	
Phenanthrene	<12.3	ug/kg	41.1	12.3	1	09/25/18 08:51	09/26/18 16:15	85-01-8	
Pyrene	31.8	ug/kg	15.9	4.8	1	09/25/18 08:51	09/26/18 16:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	10-115		1	09/25/18 08:51	09/26/18 16:15	321-60-8	
Terphenyl-d14 (S)	64	%	10-121		1	09/25/18 08:51	09/26/18 16:15	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 14:44	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 14:44	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 14:44	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 14:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 14:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	74-87-3	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-18 (6"-2) Lab ID: 40176305008 Collected: 09/18/18 12:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	1634-04-4	W
Methylene Chloride	51.6J	ug/kg	63.5	26.4	1	09/25/18 08:00	09/25/18 14:44	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 14:44	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 14:44	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 14:44	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	57-148		1	09/25/18 08:00	09/25/18 14:44	1868-53-7	
Toluene-d8 (S)	108	%	58-142		1	09/25/18 08:00	09/25/18 14:44	2037-26-5	
4-Bromofluorobenzene (S)	83	%	48-130		1	09/25/18 08:00	09/25/18 14:44	460-00-4	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 5.5 % 0.10 0.10 1 09/25/18 14:48

Sample: B-18 (9.5-11) Lab ID: 40176305009 Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.9J	mg/kg	10.3	2.2	2	09/26/18 07:12	10/02/18 18:20	7440-38-2	D3
Barium	45.2	mg/kg	1.0	0.31	2	09/26/18 07:12	10/02/18 18:20	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (9.5-11) **Lab ID: 40176305009** Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Cadmium	<0.27	mg/kg	1.0	0.27	2	09/26/18 07:12	10/02/18 18:20	7440-43-9	D3
Chromium	9.0	mg/kg	2.1	0.57	2	09/26/18 07:12	10/02/18 18:20	7440-47-3	
Lead	5.2	mg/kg	4.1	1.2	2	09/26/18 07:12	10/02/18 18:20	7439-92-1	
Selenium	<2.7	mg/kg	9.0	2.7	2	09/26/18 07:12	10/02/18 18:20	7782-49-2	D3
Silver	<0.71	mg/kg	2.1	0.71	2	09/26/18 07:12	10/02/18 18:20	7440-22-4	D3

7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.039	mg/kg	0.13	0.039	1	09/25/18 12:34	09/26/18 09:57	7439-97-6	

8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	5.3J	ug/kg	14.4	4.3	1	09/25/18 08:51	09/26/18 16:32	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.3	3.7	1	09/25/18 08:51	09/26/18 16:32	208-96-8	
Anthracene	12.1J	ug/kg	21.2	6.4	1	09/25/18 08:51	09/26/18 16:32	120-12-7	
Benzo(a)anthracene	19.8	ug/kg	11.8	3.5	1	09/25/18 08:51	09/26/18 16:32	56-55-3	
Benzo(a)pyrene	15.1	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 16:32	50-32-8	
Benzo(b)fluoranthene	24.8	ug/kg	10.5	3.2	1	09/25/18 08:51	09/26/18 16:32	205-99-2	
Benzo(g,h,i)perylene	7.0J	ug/kg	7.6	2.3	1	09/25/18 08:51	09/26/18 16:32	191-24-2	
Benzo(k)fluoranthene	9.8	ug/kg	9.3	2.8	1	09/25/18 08:51	09/26/18 16:32	207-08-9	
Chrysene	26.9	ug/kg	12.5	3.8	1	09/25/18 08:51	09/26/18 16:32	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.3	2.5	1	09/25/18 08:51	09/26/18 16:32	53-70-3	
Fluoranthene	78.1	ug/kg	19.4	5.8	1	09/25/18 08:51	09/26/18 16:32	206-44-0	
Fluorene	5.4J	ug/kg	15.4	4.6	1	09/25/18 08:51	09/26/18 16:32	86-73-7	
Indeno(1,2,3-cd)pyrene	5.9J	ug/kg	8.2	2.5	1	09/25/18 08:51	09/26/18 16:32	193-39-5	
1-Methylnaphthalene	<4.5	ug/kg	14.9	4.5	1	09/25/18 08:51	09/26/18 16:32	90-12-0	
2-Methylnaphthalene	<5.6	ug/kg	18.6	5.6	1	09/25/18 08:51	09/26/18 16:32	91-57-6	
Naphthalene	<9.4	ug/kg	31.3	9.4	1	09/25/18 08:51	09/26/18 16:32	91-20-3	
Phenanthrene	50.8	ug/kg	43.3	13.0	1	09/25/18 08:51	09/26/18 16:32	85-01-8	
Pyrene	51.9	ug/kg	16.7	5.0	1	09/25/18 08:51	09/26/18 16:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	10-115		1	09/25/18 08:51	09/26/18 16:32	321-60-8	
Terphenyl-d14 (S)	59	%	10-121		1	09/25/18 08:51	09/26/18 16:32	1718-51-0	

8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 15:07	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 15:07	96-12-8	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (9.5-11) **Lab ID: 40176305009** Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 15:07	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 15:07	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 15:07	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	1634-04-4	W
Methylene Chloride	63.8J	ug/kg	66.9	27.9	1	09/25/18 08:00	09/25/18 15:07	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 15:07	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 15:07	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	99-87-6	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-18 (9.5-11) **Lab ID: 40176305009** Collected: 09/18/18 12:15 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:07	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-148		1	09/25/18 08:00	09/25/18 15:07	1868-53-7	
Toluene-d8 (S)	101	%	58-142		1	09/25/18 08:00	09/25/18 15:07	2037-26-5	
4-Bromofluorobenzene (S)	82	%	48-130		1	09/25/18 08:00	09/25/18 15:07	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.3	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-19 (6"-3.5) **Lab ID: 40176305010** Collected: 09/18/18 12:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.3J	mg/kg	10.8	2.3	2	09/26/18 07:12	10/02/18 18:23	7440-38-2	D3
Barium	12.9	mg/kg	1.1	0.32	2	09/26/18 07:12	10/02/18 18:23	7440-39-3	
Cadmium	<0.29	mg/kg	1.1	0.29	2	09/26/18 07:12	10/02/18 18:23	7440-43-9	D3
Chromium	7.6	mg/kg	2.2	0.60	2	09/26/18 07:12	10/02/18 18:23	7440-47-3	
Lead	1.9J	mg/kg	4.3	1.3	2	09/26/18 07:12	10/02/18 18:23	7439-92-1	D3
Selenium	<2.8	mg/kg	9.4	2.8	2	09/26/18 07:12	10/02/18 18:23	7782-49-2	D3
Silver	<0.74	mg/kg	2.2	0.74	2	09/26/18 07:12	10/02/18 18:23	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.039	mg/kg	0.13	0.039	1	09/25/18 12:34	09/26/18 09:59	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	12.7J	ug/kg	14.7	4.4	1	09/25/18 08:51	09/26/18 16:50	83-32-9	
Acenaphthylene	5.4J	ug/kg	12.6	3.8	1	09/25/18 08:51	09/26/18 16:50	208-96-8	
Anthracene	44.9	ug/kg	21.7	6.5	1	09/25/18 08:51	09/26/18 16:50	120-12-7	
Benzo(a)anthracene	136	ug/kg	12.1	3.6	1	09/25/18 08:51	09/26/18 16:50	56-55-3	
Benzo(a)pyrene	142	ug/kg	9.6	2.9	1	09/25/18 08:51	09/26/18 16:50	50-32-8	
Benzo(b)fluoranthene	234	ug/kg	10.7	3.2	1	09/25/18 08:51	09/26/18 16:50	205-99-2	
Benzo(g,h,i)perylene	61.2	ug/kg	7.7	2.3	1	09/25/18 08:51	09/26/18 16:50	191-24-2	
Benzo(k)fluoranthene	77.4	ug/kg	9.5	2.9	1	09/25/18 08:51	09/26/18 16:50	207-08-9	
Chrysene	173	ug/kg	12.8	3.9	1	09/25/18 08:51	09/26/18 16:50	218-01-9	
Dibenz(a,h)anthracene	15.9	ug/kg	8.5	2.6	1	09/25/18 08:51	09/26/18 16:50	53-70-3	
Fluoranthene	360	ug/kg	19.9	5.9	1	09/25/18 08:51	09/26/18 16:50	206-44-0	
Fluorene	11.3J	ug/kg	15.8	4.7	1	09/25/18 08:51	09/26/18 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	41.2	ug/kg	8.4	2.5	1	09/25/18 08:51	09/26/18 16:50	193-39-5	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-19 (6"-3.5) **Lab ID: 40176305010** Collected: 09/18/18 12:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
1-Methylnaphthalene	13.7J	ug/kg	15.3	4.6	1	09/25/18 08:51	09/26/18 16:50	90-12-0	
2-Methylnaphthalene	20.9	ug/kg	19.1	5.7	1	09/25/18 08:51	09/26/18 16:50	91-57-6	
Naphthalene	<9.6	ug/kg	32.1	9.6	1	09/25/18 08:51	09/26/18 16:50	91-20-3	
Phenanthrene	212	ug/kg	44.3	13.3	1	09/25/18 08:51	09/26/18 16:50	85-01-8	
Pyrene	271	ug/kg	17.1	5.2	1	09/25/18 08:51	09/26/18 16:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	09/25/18 08:51	09/26/18 16:50	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/26/18 16:50	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 15:30	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 15:30	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 15:30	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 15:30	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 15:30	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	124-48-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-19 (6"-3.5) Lab ID: 40176305010 Collected: 09/18/18 12:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	1634-04-4	W
Methylene Chloride	57.3J	ug/kg	68.6	28.6	1	09/25/18 08:00	09/25/18 15:30	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 15:30	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 15:30	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 15:30	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-148		1	09/25/18 08:00	09/25/18 15:30	1868-53-7	
Toluene-d8 (S)	100	%	58-142		1	09/25/18 08:00	09/25/18 15:30	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-130		1	09/25/18 08:00	09/25/18 15:30	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.5	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-20 (6"-3.5) Lab ID: 40176305011 Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.9J	mg/kg	10.5	2.2	2	09/26/18 07:12	10/02/18 18:25	7440-38-2	D3
Barium	8.9	mg/kg	1.0	0.31	2	09/26/18 07:12	10/02/18 18:25	7440-39-3	
Cadmium	<0.28	mg/kg	1.0	0.28	2	09/26/18 07:12	10/02/18 18:25	7440-43-9	D3

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-20 (6"-3.5) **Lab ID: 40176305011** Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Chromium	4.5	mg/kg	2.1	0.58	2	09/26/18 07:12	10/02/18 18:25	7440-47-3	
Lead	7.0	mg/kg	4.2	1.3	2	09/26/18 07:12	10/02/18 18:25	7439-92-1	
Selenium	<2.7	mg/kg	9.1	2.7	2	09/26/18 07:12	10/02/18 18:25	7782-49-2	D3
Silver	<0.72	mg/kg	2.1	0.72	2	09/26/18 07:12	10/02/18 18:25	7440-22-4	D3
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.034	mg/kg	0.11	0.034	1	09/25/18 12:34	09/26/18 10:02	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.1	ug/kg	13.7	4.1	1	09/25/18 08:51	09/26/18 17:07	83-32-9	
Acenaphthylene	<3.5	ug/kg	11.7	3.5	1	09/25/18 08:51	09/26/18 17:07	208-96-8	
Anthracene	7.9J	ug/kg	20.2	6.1	1	09/25/18 08:51	09/26/18 17:07	120-12-7	
Benzo(a)anthracene	26.1	ug/kg	11.3	3.4	1	09/25/18 08:51	09/26/18 17:07	56-55-3	
Benzo(a)pyrene	26.5	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 17:07	50-32-8	
Benzo(b)fluoranthene	41.4	ug/kg	10.0	3.0	1	09/25/18 08:51	09/26/18 17:07	205-99-2	
Benzo(g,h,i)perylene	10.5	ug/kg	7.2	2.2	1	09/25/18 08:51	09/26/18 17:07	191-24-2	
Benzo(k)fluoranthene	14.6	ug/kg	8.9	2.7	1	09/25/18 08:51	09/26/18 17:07	207-08-9	
Chrysene	34.1	ug/kg	11.9	3.6	1	09/25/18 08:51	09/26/18 17:07	218-01-9	
Dibenz(a,h)anthracene	2.8J	ug/kg	7.9	2.4	1	09/25/18 08:51	09/26/18 17:07	53-70-3	
Fluoranthene	60.9	ug/kg	18.5	5.5	1	09/25/18 08:51	09/26/18 17:07	206-44-0	
Fluorene	<4.4	ug/kg	14.7	4.4	1	09/25/18 08:51	09/26/18 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	7.4J	ug/kg	7.8	2.3	1	09/25/18 08:51	09/26/18 17:07	193-39-5	
1-Methylnaphthalene	<4.3	ug/kg	14.3	4.3	1	09/25/18 08:51	09/26/18 17:07	90-12-0	
2-Methylnaphthalene	<5.3	ug/kg	17.8	5.3	1	09/25/18 08:51	09/26/18 17:07	91-57-6	
Naphthalene	<9.0	ug/kg	29.9	9.0	1	09/25/18 08:51	09/26/18 17:07	91-20-3	
Phenanthrene	32.6J	ug/kg	41.3	12.4	1	09/25/18 08:51	09/26/18 17:07	85-01-8	
Pyrene	46.9	ug/kg	16.0	4.8	1	09/25/18 08:51	09/26/18 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	10-115		1	09/25/18 08:51	09/26/18 17:07	321-60-8	
Terphenyl-d14 (S)	60	%	10-121		1	09/25/18 08:51	09/26/18 17:07	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 16:06	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 16:06	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	106-93-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-20 (6"-3.5) **Lab ID: 40176305011** Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 16:06	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 16:06	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 16:06	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	1634-04-4	W
Methylene Chloride	44.0J	ug/kg	63.9	26.6	1	09/25/18 08:00	09/25/18 16:06	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 16:06	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 16:06	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	135-98-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-20 (6"-3.5) **Lab ID: 40176305011** Collected: 09/18/18 13:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:06	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	57-148		1	09/25/18 08:00	09/25/18 16:06	1868-53-7	
Toluene-d8 (S)	103	%	58-142		1	09/25/18 08:00	09/25/18 16:06	2037-26-5	
4-Bromofluorobenzene (S)	85	%	48-130		1	09/25/18 08:00	09/25/18 16:06	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.1	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-21 (2-3.5) **Lab ID: 40176305012** Collected: 09/18/18 13:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	9.1	mg/kg	5.6	1.2	1	09/26/18 07:12	09/28/18 10:46	7440-38-2	
Barium	660	mg/kg	0.56	0.17	1	09/26/18 07:12	09/28/18 10:46	7440-39-3	
Cadmium	104	mg/kg	0.56	0.15	1	09/26/18 07:12	09/28/18 10:46	7440-43-9	
Chromium	214	mg/kg	1.1	0.31	1	09/26/18 07:12	09/28/18 10:46	7440-47-3	
Lead	8250	mg/kg	225	67.5	100	09/26/18 07:12	10/02/18 18:28	7439-92-1	
Selenium	3.9J	mg/kg	4.9	1.5	1	09/26/18 07:12	09/28/18 10:46	7782-49-2	
Silver	1.1	mg/kg	1.1	0.39	1	09/26/18 07:12	09/28/18 10:46	7440-22-4	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 10/15/18 14:35									
Cadmium	0.28	mg/L	0.025	0.0066	1	10/17/18 06:44	10/18/18 11:18	7440-43-9	
Chromium	<0.013	mg/L	0.050	0.013	1	10/17/18 06:44	10/18/18 11:18	7440-47-3	
Lead	4.1	mg/L	0.098	0.030	1	10/17/18 06:44	10/18/18 11:18	7439-92-1	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.22	mg/kg	0.13	0.038	1	09/25/18 12:34	09/26/18 10:04	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	538	ug/kg	297	89.4	20	09/25/18 09:33	09/26/18 13:06	83-32-9	
Acenaphthylene	90.8J	ug/kg	253	75.9	20	09/25/18 09:33	09/26/18 13:06	208-96-8	
Anthracene	1400	ug/kg	438	132	20	09/25/18 09:33	09/26/18 13:06	120-12-7	
Benzo(a)anthracene	2090	ug/kg	244	73.1	20	09/25/18 09:33	09/26/18 13:06	56-55-3	
Benzo(a)pyrene	2190	ug/kg	193	57.9	20	09/25/18 09:33	09/26/18 13:06	50-32-8	
Benzo(b)fluoranthene	2740	ug/kg	217	65.1	20	09/25/18 09:33	09/26/18 13:06	205-99-2	
Benzo(g,h,i)perylene	1560	ug/kg	156	46.8	20	09/25/18 09:33	09/26/18 13:06	191-24-2	
Benzo(k)fluoranthene	1230	ug/kg	193	57.8	20	09/25/18 09:33	09/26/18 13:06	207-08-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (2-3.5) **Lab ID: 40176305012** Collected: 09/18/18 13:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Chrysene	2410	ug/kg	258	77.7	20	09/25/18 09:33	09/26/18 13:06	218-01-9	
Dibenz(a,h)anthracene	306	ug/kg	172	51.5	20	09/25/18 09:33	09/26/18 13:06	53-70-3	
Fluoranthene	6770	ug/kg	401	120	20	09/25/18 09:33	09/26/18 13:06	206-44-0	
Fluorene	756	ug/kg	318	95.4	20	09/25/18 09:33	09/26/18 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	1190	ug/kg	169	50.7	20	09/25/18 09:33	09/26/18 13:06	193-39-5	
1-Methylnaphthalene	323	ug/kg	309	92.7	20	09/25/18 09:33	09/26/18 13:06	90-12-0	
2-Methylnaphthalene	564	ug/kg	385	115	20	09/25/18 09:33	09/26/18 13:06	91-57-6	
Naphthalene	1090	ug/kg	647	194	20	09/25/18 09:33	09/26/18 13:06	91-20-3	
Phenanthrene	4110	ug/kg	894	268	20	09/25/18 09:33	09/26/18 13:06	85-01-8	
Pyrene	5080	ug/kg	346	104	20	09/25/18 09:33	09/26/18 13:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%	10-115		20	09/25/18 09:33	09/26/18 13:06	321-60-8	
Terphenyl-d14 (S)	34	%	10-121		20	09/25/18 09:33	09/26/18 13:06	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	96-18-4	W
1,2,4-Trichlorobenzene	102J	ug/kg	288	54.8	1	09/25/18 08:00	09/25/18 16:29	120-82-1	
1,2,4-Trimethylbenzene	77.3	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	95-63-6	
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 16:29	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	106-93-4	W
1,2-Dichlorobenzene	1290	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	95-50-1	
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	78-87-5	W
1,3,5-Trimethylbenzene	44.4J	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	108-67-8	
1,3-Dichlorobenzene	88.4	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	541-73-1	
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	142-28-9	W
1,4-Dichlorobenzene	1170	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	106-46-7	
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 16:29	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (2-3.5) **Lab ID: 40176305012** Collected: 09/18/18 13:30 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	1430	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	108-90-7	
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 16:29	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 16:29	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	108-20-3	W
Ethylbenzene	130	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	1634-04-4	W
Methylene Chloride	60.1J	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	75-09-2	B
Naphthalene	1140	ug/kg	288	46.2	1	09/25/18 08:00	09/25/18 16:29	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	127-18-4	W
Toluene	136	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	108-88-3	
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	10061-01-5	W
m&p-Xylene	254	ug/kg	138	57.6	1	09/25/18 08:00	09/25/18 16:29	179601-23-1	
n-Butylbenzene	40.6J	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	104-51-8	
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	103-65-1	W
o-Xylene	134	ug/kg	69.2	28.8	1	09/25/18 08:00	09/25/18 16:29	95-47-6	
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:29	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	129	%	57-148		1	09/25/18 08:00	09/25/18 16:29	1868-53-7	
Toluene-d8 (S)	127	%	58-142		1	09/25/18 08:00	09/25/18 16:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-130		1	09/25/18 08:00	09/25/18 16:29	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	13.3	%	0.10	0.10	1		09/25/18 14:49		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (14.5-16) **Lab ID: 40176305013** Collected: 09/18/18 13:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	6.4	mg/kg	5.8	1.2	1	09/26/18 07:12	09/28/18 10:49	7440-38-2	
Barium	61.9	mg/kg	0.58	0.17	1	09/26/18 07:12	09/28/18 10:49	7440-39-3	
Cadmium	0.39J	mg/kg	0.58	0.15	1	09/26/18 07:12	09/28/18 10:49	7440-43-9	
Chromium	16.6	mg/kg	1.2	0.32	1	09/26/18 07:12	09/28/18 10:49	7440-47-3	
Lead	17.9	mg/kg	2.3	0.69	1	09/26/18 07:12	09/28/18 10:49	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	09/26/18 07:12	09/28/18 10:49	7782-49-2	
Silver	<0.40	mg/kg	1.2	0.40	1	09/26/18 07:12	09/28/18 10:49	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.036	mg/kg	0.12	0.036	1	09/25/18 12:34	09/26/18 10:06	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	884	ug/kg	382	115	25	09/25/18 09:33	09/26/18 12:31	83-32-9	
Acenaphthylene	207J	ug/kg	326	97.6	25	09/25/18 09:33	09/26/18 12:31	208-96-8	
Anthracene	384J	ug/kg	563	169	25	09/25/18 09:33	09/26/18 12:31	120-12-7	
Benzo(a)anthracene	<93.9	ug/kg	314	93.9	25	09/25/18 09:33	09/26/18 12:31	56-55-3	
Benzo(a)pyrene	<74.4	ug/kg	248	74.4	25	09/25/18 09:33	09/26/18 12:31	50-32-8	
Benzo(b)fluoranthene	<83.6	ug/kg	279	83.6	25	09/25/18 09:33	09/26/18 12:31	205-99-2	
Benzo(g,h,i)perylene	<60.2	ug/kg	201	60.2	25	09/25/18 09:33	09/26/18 12:31	191-24-2	
Benzo(k)fluoranthene	<74.3	ug/kg	248	74.3	25	09/25/18 09:33	09/26/18 12:31	207-08-9	
Chrysene	<99.9	ug/kg	332	99.9	25	09/25/18 09:33	09/26/18 12:31	218-01-9	
Dibenz(a,h)anthracene	<66.2	ug/kg	221	66.2	25	09/25/18 09:33	09/26/18 12:31	53-70-3	
Fluoranthene	<154	ug/kg	515	154	25	09/25/18 09:33	09/26/18 12:31	206-44-0	
Fluorene	996	ug/kg	409	123	25	09/25/18 09:33	09/26/18 12:31	86-73-7	
Indeno(1,2,3-cd)pyrene	<65.1	ug/kg	217	65.1	25	09/25/18 09:33	09/26/18 12:31	193-39-5	
1-Methylnaphthalene	9270	ug/kg	397	119	25	09/25/18 09:33	09/26/18 12:31	90-12-0	
2-Methylnaphthalene	16900	ug/kg	495	148	25	09/25/18 09:33	09/26/18 12:31	91-57-6	
Naphthalene	3510	ug/kg	832	249	25	09/25/18 09:33	09/26/18 12:31	91-20-3	
Phenanthrene	3260	ug/kg	1150	345	25	09/25/18 09:33	09/26/18 12:31	85-01-8	
Pyrene	175J	ug/kg	444	134	25	09/25/18 09:33	09/26/18 12:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87	%	10-115		25	09/25/18 09:33	09/26/18 12:31	321-60-8	
Terphenyl-d14 (S)	70	%	10-121		25	09/25/18 09:33	09/26/18 12:31	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 16:52	120-82-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (14.5-16) **Lab ID: 40176305013** Collected: 09/18/18 13:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 16:52	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 16:52	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 16:52	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 16:52	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	1634-04-4	W
Methylene Chloride	49.8J	ug/kg	71.0	29.6	1	09/25/18 08:00	09/25/18 16:52	75-09-2	B
Naphthalene	106J	ug/kg	296	47.4	1	09/25/18 08:00	09/25/18 16:52	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 16:52	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	103-65-1	W

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-21 (14.5-16) **Lab ID: 40176305013** Collected: 09/18/18 13:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 16:52	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-148		1	09/25/18 08:00	09/25/18 16:52	1868-53-7	
Toluene-d8 (S)	108	%	58-142		1	09/25/18 08:00	09/25/18 16:52	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-130		1	09/25/18 08:00	09/25/18 16:52	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.5	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-23 (6"-2) **Lab ID: 40176305014** Collected: 09/18/18 14:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	5.2J	mg/kg	5.4	1.1	1	09/26/18 07:12	09/28/18 10:51	7440-38-2	
Barium	66.8	mg/kg	0.54	0.16	1	09/26/18 07:12	09/28/18 10:51	7440-39-3	
Cadmium	0.36J	mg/kg	0.54	0.14	1	09/26/18 07:12	09/28/18 10:51	7440-43-9	
Chromium	18.2	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:51	7440-47-3	
Lead	50.3	mg/kg	2.2	0.65	1	09/26/18 07:12	09/28/18 10:51	7439-92-1	
Selenium	<1.4	mg/kg	4.7	1.4	1	09/26/18 07:12	09/28/18 10:51	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	09/26/18 07:12	09/28/18 10:51	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.069J	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 10:13	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	185	ug/kg	57.6	17.3	4	09/25/18 09:33	09/26/18 14:49	83-32-9	
Acenaphthylene	34.0J	ug/kg	49.1	14.7	4	09/25/18 09:33	09/26/18 14:49	208-96-8	
Anthracene	322	ug/kg	84.8	25.5	4	09/25/18 09:33	09/26/18 14:49	120-12-7	
Benzo(a)anthracene	729	ug/kg	47.3	14.2	4	09/25/18 09:33	09/26/18 14:49	56-55-3	
Benzo(a)pyrene	744	ug/kg	37.4	11.2	4	09/25/18 09:33	09/26/18 14:49	50-32-8	
Benzo(b)fluoranthene	905	ug/kg	42.0	12.6	4	09/25/18 09:33	09/26/18 14:49	205-99-2	
Benzo(g,h,i)perylene	420	ug/kg	30.2	9.1	4	09/25/18 09:33	09/26/18 14:49	191-24-2	
Benzo(k)fluoranthene	425	ug/kg	37.3	11.2	4	09/25/18 09:33	09/26/18 14:49	207-08-9	
Chrysene	827	ug/kg	50.0	15.1	4	09/25/18 09:33	09/26/18 14:49	218-01-9	
Dibenz(a,h)anthracene	111	ug/kg	33.3	10	4	09/25/18 09:33	09/26/18 14:49	53-70-3	
Fluoranthene	1630	ug/kg	77.7	23.2	4	09/25/18 09:33	09/26/18 14:49	206-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (6"-2) **Lab ID: 40176305014** Collected: 09/18/18 14:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Fluorene	26.2J	ug/kg	61.6	18.5	4	09/25/18 09:33	09/26/18 14:49	86-73-7	
Indeno(1,2,3-cd)pyrene	369	ug/kg	32.7	9.8	4	09/25/18 09:33	09/26/18 14:49	193-39-5	
1-Methylnaphthalene	37.7J	ug/kg	59.8	18.0	4	09/25/18 09:33	09/26/18 14:49	90-12-0	
2-Methylnaphthalene	<22.3	ug/kg	74.5	22.3	4	09/25/18 09:33	09/26/18 14:49	91-57-6	
Naphthalene	<37.6	ug/kg	125	37.6	4	09/25/18 09:33	09/26/18 14:49	91-20-3	
Phenanthrene	576	ug/kg	173	52.0	4	09/25/18 09:33	09/26/18 14:49	85-01-8	
Pyrene	1220	ug/kg	67.0	20.1	4	09/25/18 09:33	09/26/18 14:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	10-115		4	09/25/18 09:33	09/26/18 14:49	321-60-8	
Terphenyl-d14 (S)	53	%	10-121		4	09/25/18 09:33	09/26/18 14:49	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 19:11	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 19:11	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 19:11	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 19:11	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 19:11	67-66-3	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Sample: B-23 (6"-2) **Lab ID: 40176305014** Collected: 09/18/18 14:00 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	1634-04-4	W
Methylene Chloride	64.1J	ug/kg	67.0	27.9	1	09/25/18 08:00	09/25/18 19:11	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 19:11	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 19:11	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 19:11	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	57-148		1	09/25/18 08:00	09/25/18 19:11	1868-53-7	
Toluene-d8 (S)	113	%	58-142		1	09/25/18 08:00	09/25/18 19:11	2037-26-5	
4-Bromofluorobenzene (S)	89	%	48-130		1	09/25/18 08:00	09/25/18 19:11	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.4	%	0.10	0.10	1		09/25/18 14:49		

Sample: B-23 (12-13.5) **Lab ID: 40176305015** Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.8J	mg/kg	5.5	1.1	1	09/26/18 07:12	09/28/18 10:54	7440-38-2	

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (12-13.5) **Lab ID: 40176305015** Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Barium	75.2	mg/kg	0.55	0.16	1	09/26/18 07:12	09/28/18 10:54	7440-39-3	
Cadmium	0.25J	mg/kg	0.55	0.15	1	09/26/18 07:12	09/28/18 10:54	7440-43-9	
Chromium	20.7	mg/kg	1.1	0.30	1	09/26/18 07:12	09/28/18 10:54	7440-47-3	
Lead	11.7	mg/kg	2.2	0.66	1	09/26/18 07:12	09/28/18 10:54	7439-92-1	
Selenium	<1.4	mg/kg	4.8	1.4	1	09/26/18 07:12	09/28/18 10:54	7782-49-2	
Silver	<0.38	mg/kg	1.1	0.38	1	09/26/18 07:12	09/28/18 10:54	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.037	mg/kg	0.12	0.037	1	09/25/18 12:34	09/26/18 10:16	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.7	ug/kg	15.6	4.7	1	09/25/18 09:33	09/26/18 11:40	83-32-9	
Acenaphthylene	<4.0	ug/kg	13.3	4.0	1	09/25/18 09:33	09/26/18 11:40	208-96-8	
Anthracene	<6.9	ug/kg	23.0	6.9	1	09/25/18 09:33	09/26/18 11:40	120-12-7	
Benzo(a)anthracene	5.6J	ug/kg	12.8	3.8	1	09/25/18 09:33	09/26/18 11:40	56-55-3	
Benzo(a)pyrene	<3.0	ug/kg	10.1	3.0	1	09/25/18 09:33	09/26/18 11:40	50-32-8	
Benzo(b)fluoranthene	<3.4	ug/kg	11.4	3.4	1	09/25/18 09:33	09/26/18 11:40	205-99-2	
Benzo(g,h,i)perylene	<2.5	ug/kg	8.2	2.5	1	09/25/18 09:33	09/26/18 11:40	191-24-2	
Benzo(k)fluoranthene	<3.0	ug/kg	10.1	3.0	1	09/25/18 09:33	09/26/18 11:40	207-08-9	
Chrysene	<4.1	ug/kg	13.6	4.1	1	09/25/18 09:33	09/26/18 11:40	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	9.0	2.7	1	09/25/18 09:33	09/26/18 11:40	53-70-3	
Fluoranthene	6.6J	ug/kg	21.1	6.3	1	09/25/18 09:33	09/26/18 11:40	206-44-0	
Fluorene	<5.0	ug/kg	16.7	5.0	1	09/25/18 09:33	09/26/18 11:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.7	ug/kg	8.9	2.7	1	09/25/18 09:33	09/26/18 11:40	193-39-5	
1-Methylnaphthalene	<4.9	ug/kg	16.2	4.9	1	09/25/18 09:33	09/26/18 11:40	90-12-0	
2-Methylnaphthalene	<6.1	ug/kg	20.2	6.1	1	09/25/18 09:33	09/26/18 11:40	91-57-6	
Naphthalene	<10.2	ug/kg	34.0	10.2	1	09/25/18 09:33	09/26/18 11:40	91-20-3	
Phenanthrene	<14.1	ug/kg	47.0	14.1	1	09/25/18 09:33	09/26/18 11:40	85-01-8	
Pyrene	5.8J	ug/kg	18.2	5.5	1	09/25/18 09:33	09/26/18 11:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	10-115		1	09/25/18 09:33	09/26/18 11:40	321-60-8	
Terphenyl-d14 (S)	61	%	10-121		1	09/25/18 09:33	09/26/18 11:40	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	09/25/18 08:00	09/25/18 17:15	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-63-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (12-13.5) Lab ID: 40176305015 Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	09/25/18 08:00	09/25/18 17:15	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-50-1	W
1,2-Dichloroethane	115	ug/kg	72.7	30.3	1	09/25/18 08:00	09/25/18 17:15	107-06-2	
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	09/25/18 08:00	09/25/18 17:15	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	09/25/18 08:00	09/25/18 17:15	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	09/25/18 08:00	09/25/18 17:15	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	1634-04-4	W
Methylene Chloride	59.7J	ug/kg	72.7	30.3	1	09/25/18 08:00	09/25/18 17:15	75-09-2	B
Naphthalene	<40.0	ug/kg	250	40.0	1	09/25/18 08:00	09/25/18 17:15	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	09/25/18 08:00	09/25/18 17:15	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	95-47-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Sample: B-23 (12-13.5) **Lab ID: 40176305015** Collected: 09/18/18 14:45 Received: 09/21/18 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	09/25/18 08:00	09/25/18 17:15	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-148		1	09/25/18 08:00	09/25/18 17:15	1868-53-7	
Toluene-d8 (S)	96	%	58-142		1	09/25/18 08:00	09/25/18 17:15	2037-26-5	
4-Bromofluorobenzene (S)	79	%	48-130		1	09/25/18 08:00	09/25/18 17:15	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.4	%	0.10	0.10	1		09/25/18 14:49		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

QC Batch: 301143 Analysis Method: EPA 7471

QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

METHOD BLANK: 1758834 Matrix: Solid

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.035	0.12	09/26/18 09:18	

LABORATORY CONTROL SAMPLE: 1758835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758836 1758837

Parameter	Units	40176292001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury	mg/kg	<0.042	1	1	1.1	1.1	102	102	85-115	2	20

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

QC Batch:	301034	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015		

METHOD BLANK:	1758360	Matrix:	Solid
Associated Lab Samples:	40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	09/28/18 10:05	
Barium	mg/kg	<0.15	0.50	09/28/18 10:05	
Cadmium	mg/kg	<0.13	0.50	09/28/18 10:05	
Chromium	mg/kg	<0.28	1.0	09/28/18 10:05	
Lead	mg/kg	<0.60	2.0	09/28/18 10:05	
Selenium	mg/kg	<1.3	4.4	09/28/18 10:05	
Silver	mg/kg	<0.34	1.0	09/28/18 10:05	

LABORATORY CONTROL SAMPLE: 1758361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.3	101	80-120	
Barium	mg/kg	50	50.2	100	80-120	
Cadmium	mg/kg	50	49.7	99	80-120	
Chromium	mg/kg	50	50.6	101	80-120	
Lead	mg/kg	50	49.6	99	80-120	
Selenium	mg/kg	50	51.0	102	80-120	
Silver	mg/kg	25	25.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758362 1758363

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		Spike Conc.	Result	Spike Conc.	Result						
Arsenic	mg/kg	8.0	59.7	59.5	63.5	61.7	93	90	75-125	3	20
Barium	mg/kg	72.1	59.7	59.5	136	130	106	98	75-125	4	20
Cadmium	mg/kg	0.27J	59.7	59.5	58.1	57.6	97	96	75-125	1	20
Chromium	mg/kg	20.5	59.7	59.5	78.7	77.2	98	95	75-125	2	20
Lead	mg/kg	10.3	59.7	59.5	64.0	61.9	90	87	75-125	3	20
Selenium	mg/kg	<1.6	59.7	59.5	57.0	56.4	96	95	75-125	1	20
Silver	mg/kg	<0.41	29.8	29.7	29.3	28.6	98	96	75-125	2	20

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

QC Batch: 303424 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 40176305004, 40176305012

METHOD BLANK: 1772270 Matrix: Water
Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0013	0.0050	10/18/18 11:07	
Chromium	mg/L	<0.0025	0.010	10/18/18 11:07	
Lead	mg/L	<0.0059	0.020	10/18/18 11:07	

METHOD BLANK: 1770901 Matrix: Solid
Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0066	0.025	10/18/18 11:52	
Chromium	mg/L	<0.013	0.050	10/18/18 11:52	
Lead	mg/L	<0.030	0.098	10/18/18 11:52	

METHOD BLANK: 1770902 Matrix: Solid
Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0066	0.025	10/18/18 12:09	
Chromium	mg/L	<0.013	0.050	10/18/18 12:09	
Lead	mg/L	<0.030	0.098	10/18/18 12:09	

METHOD BLANK: 1770903 Matrix: Solid
Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0066	0.025	10/18/18 12:16	
Chromium	mg/L	<0.013	0.050	10/18/18 12:16	
Lead	mg/L	<0.030	0.098	10/18/18 12:16	

METHOD BLANK: 1770904 Matrix: Solid
Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/L	<0.0013	0.0050	10/18/18 12:24	
Chromium	mg/L	<0.0025	0.010	10/18/18 12:24	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

METHOD BLANK: 1770904 Matrix: Solid

Associated Lab Samples: 40176305004, 40176305012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0059	0.020	10/18/18 12:24	

LABORATORY CONTROL SAMPLE: 1772271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	.5	0.45	90	80-120	
Chromium	mg/L	.5	0.50	101	80-120	
Lead	mg/L	.5	0.48	96	80-120	

MATRIX SPIKE SAMPLE: 1772272

Parameter	Units	10451259001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.2	89	75-125	
Chromium	mg/L	<0.013	2.5	2.5	100	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772273 1772274

Parameter	Units	40176305004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	0.028	2.5	2.5	2.3	2.3	90	91	75-125	2	20	
Chromium	mg/L	<0.013	2.5	2.5	2.4	2.5	97	99	75-125	2	20	
Lead	mg/L	2.9	2.5	2.5	5.0	5.1	85	90	75-125	2	20	

MATRIX SPIKE SAMPLE: 1772275

Parameter	Units	40177395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	0.0080J	2.5	2.2	89	75-125	
Chromium	mg/L	0.015J	2.5	2.5	99	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE SAMPLE: 1772276

Parameter	Units	40177480001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.3	91	75-125	
Chromium	mg/L	<0.013	2.5	2.4	96	75-125	
Lead	mg/L	0.24	2.5	2.5	90	75-125	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

MATRIX SPIKE SAMPLE: 1772277		40177541001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	0.030	2.5	2.3	91	75-125	
Chromium	mg/L	<0.013	2.5	2.5	99	75-125	
Lead	mg/L	0.95	2.5	3.4	97	75-125	

MATRIX SPIKE SAMPLE: 1772278		40177546001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	0.0089J	2.5	2.3	90	75-125	
Chromium	mg/L	2.5	2.5	5.1	100	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE SAMPLE: 1772279		40177595001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.3	92	75-125	
Chromium	mg/L	0.081	2.5	2.5	97	75-125	
Lead	mg/L	<0.030	2.5	2.3	91	75-125	

MATRIX SPIKE SAMPLE: 1772280		40177596001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium	mg/L	<0.0066	2.5	2.3	93	75-125	
Chromium	mg/L	<0.013	2.5	2.5	99	75-125	
Lead	mg/L	<0.030	2.5	2.3	92	75-125	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

QC Batch: 301170

Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260 MSV Med Level Normal List

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

METHOD BLANK: 1758936

Matrix: Solid

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	09/25/18 09:29	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	09/25/18 09:29	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	09/25/18 09:29	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	09/25/18 09:29	
1,1-Dichloroethane	ug/kg	<17.6	50.0	09/25/18 09:29	
1,1-Dichloroethene	ug/kg	<17.6	50.0	09/25/18 09:29	
1,1-Dichloropropene	ug/kg	<14.0	50.0	09/25/18 09:29	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	09/25/18 09:29	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	09/25/18 09:29	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	09/25/18 09:29	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	09/25/18 09:29	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	09/25/18 09:29	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	09/25/18 09:29	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	09/25/18 09:29	
1,2-Dichloroethane	ug/kg	<15.0	50.0	09/25/18 09:29	
1,2-Dichloropropane	ug/kg	<16.8	50.0	09/25/18 09:29	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	09/25/18 09:29	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	09/25/18 09:29	
1,3-Dichloropropane	ug/kg	<12.0	50.0	09/25/18 09:29	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	09/25/18 09:29	
2,2-Dichloropropane	ug/kg	<12.6	50.0	09/25/18 09:29	
2-Chlorotoluene	ug/kg	<15.8	50.0	09/25/18 09:29	
4-Chlorotoluene	ug/kg	<13.0	50.0	09/25/18 09:29	
Benzene	ug/kg	<9.2	20.0	09/25/18 09:29	
Bromobenzene	ug/kg	<20.6	50.0	09/25/18 09:29	
Bromochloromethane	ug/kg	<21.4	50.0	09/25/18 09:29	
Bromodichloromethane	ug/kg	<9.8	50.0	09/25/18 09:29	
Bromoform	ug/kg	<19.8	50.0	09/25/18 09:29	
Bromomethane	ug/kg	<69.9	250	09/25/18 09:29	
Carbon tetrachloride	ug/kg	<12.1	50.0	09/25/18 09:29	
Chlorobenzene	ug/kg	<14.8	50.0	09/25/18 09:29	
Chloroethane	ug/kg	<67.0	250	09/25/18 09:29	
Chloroform	ug/kg	<46.4	250	09/25/18 09:29	
Chloromethane	ug/kg	<20.4	50.0	09/25/18 09:29	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	09/25/18 09:29	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	09/25/18 09:29	
Dibromochloromethane	ug/kg	<17.9	50.0	09/25/18 09:29	
Dibromomethane	ug/kg	<19.3	50.0	09/25/18 09:29	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

METHOD BLANK: 1758936

Matrix: Solid

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/kg	<12.3	50.0	09/25/18 09:29	
Diisopropyl ether	ug/kg	<17.7	50.0	09/25/18 09:29	
Ethylbenzene	ug/kg	<12.4	50.0	09/25/18 09:29	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	09/25/18 09:29	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	09/25/18 09:29	
m&p-Xylene	ug/kg	<34.4	100	09/25/18 09:29	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/25/18 09:29	
Methylene Chloride	ug/kg	48.2J	50.0	09/25/18 09:29	
n-Butylbenzene	ug/kg	<10.5	50.0	09/25/18 09:29	
n-Propylbenzene	ug/kg	<11.6	50.0	09/25/18 09:29	
Naphthalene	ug/kg	<40.0	250	09/25/18 09:29	
o-Xylene	ug/kg	<14.0	50.0	09/25/18 09:29	
p-Isopropyltoluene	ug/kg	<12.0	50.0	09/25/18 09:29	
sec-Butylbenzene	ug/kg	<11.9	50.0	09/25/18 09:29	
Styrene	ug/kg	<9.0	50.0	09/25/18 09:29	
tert-Butylbenzene	ug/kg	<9.5	50.0	09/25/18 09:29	
Tetrachloroethene	ug/kg	<12.9	50.0	09/25/18 09:29	
Toluene	ug/kg	<11.2	50.0	09/25/18 09:29	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	09/25/18 09:29	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	09/25/18 09:29	
Trichloroethene	ug/kg	<23.6	50.0	09/25/18 09:29	
Trichlorofluoromethane	ug/kg	<24.7	50.0	09/25/18 09:29	
Vinyl chloride	ug/kg	<21.1	50.0	09/25/18 09:29	
4-Bromofluorobenzene (S)	%	88	48-130	09/25/18 09:29	
Dibromofluoromethane (S)	%	107	57-148	09/25/18 09:29	
Toluene-d8 (S)	%	109	58-142	09/25/18 09:29	

LABORATORY CONTROL SAMPLE: 1758937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2320	93	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2540	102	68-130	
1,1,2-Trichloroethane	ug/kg	2500	2470	99	70-130	
1,1-Dichloroethane	ug/kg	2500	2420	97	67-132	
1,1-Dichloroethene	ug/kg	2500	2540	101	67-128	
1,2,4-Trichlorobenzene	ug/kg	2500	2590	104	51-131	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2290	92	49-117	
1,2-Dibromoethane (EDB)	ug/kg	2500	2690	108	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2360	95	70-130	
1,2-Dichloroethane	ug/kg	2500	2180	87	65-137	
1,2-Dichloropropane	ug/kg	2500	2380	95	75-126	
1,3-Dichlorobenzene	ug/kg	2500	2320	93	70-130	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

LABORATORY CONTROL SAMPLE: 1758937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	2500	2160	86	70-130	
Benzene	ug/kg	2500	2470	99	70-130	
Bromodichloromethane	ug/kg	2500	2310	92	70-130	
Bromoform	ug/kg	2500	2260	90	57-117	
Bromomethane	ug/kg	2500	2330	93	48-135	
Carbon tetrachloride	ug/kg	2500	2350	94	65-133	
Chlorobenzene	ug/kg	2500	2320	93	70-130	
Chloroethane	ug/kg	2500	2770	111	37-165	
Chloroform	ug/kg	2500	2320	93	72-126	
Chloromethane	ug/kg	2500	1660	66	34-120	
cis-1,2-Dichloroethene	ug/kg	2500	2390	96	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2390	96	69-130	
Dibromochloromethane	ug/kg	2500	2480	99	68-130	
Dichlorodifluoromethane	ug/kg	2500	1170	47	22-100	
Ethylbenzene	ug/kg	2500	2410	96	79-121	
Isopropylbenzene (Cumene)	ug/kg	2500	2540	102	70-130	
m&p-Xylene	ug/kg	5000	5170	103	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2440	98	66-129	
Methylene Chloride	ug/kg	2500	2490	100	68-129	
o-Xylene	ug/kg	2500	2500	100	70-130	
Styrene	ug/kg	2500	2430	97	70-130	
Tetrachloroethene	ug/kg	2500	2170	87	70-130	
Toluene	ug/kg	2500	2480	99	80-123	
trans-1,2-Dichloroethene	ug/kg	2500	2610	104	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2630	105	67-130	
Trichloroethene	ug/kg	2500	2310	92	70-130	
Trichlorofluoromethane	ug/kg	2500	2680	107	64-134	
Vinyl chloride	ug/kg	2500	2090	84	52-122	
4-Bromofluorobenzene (S)	%			99	48-130	
Dibromofluoromethane (S)	%			105	57-148	
Toluene-d8 (S)	%			102	58-142	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758938 1758939

Parameter	Units	40176305001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/kg	<25.0	1490	1490	1290	1330	86	89	62-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1490	1490	1640	1500	110	100	64-137	9	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1490	1490	1520	1470	102	98	70-130	3	20	
1,1-Dichloroethane	ug/kg	<25.0	1490	1490	1370	1460	92	98	65-132	6	20	
1,1-Dichloroethene	ug/kg	<25.0	1490	1490	1170	1380	79	92	50-128	16	21	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1490	1490	1740	1720	113	111	51-148	1	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1490	1490	1470	1300	99	87	43-134	13	23	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1490	1490	1500	1360	101	91	70-130	10	20	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758938		1758939		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40176305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dichlorobenzene	ug/kg	<25.0	1490	1490	1660	1490	111	100	70-130	11	20		
1,2-Dichloroethane	ug/kg	<25.0	1490	1490	1310	1320	88	88	65-139	0	20		
1,2-Dichloropropane	ug/kg	<25.0	1490	1490	1350	1520	91	102	74-128	12	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1490	1490	1540	1460	103	98	70-130	5	20		
1,4-Dichlorobenzene	ug/kg	<25.0	1490	1490	1530	1370	103	92	70-130	11	20		
Benzene	ug/kg	<25.0	1490	1490	1430	1440	96	97	66-132	1	20		
Bromodichloromethane	ug/kg	<25.0	1490	1490	1370	1500	92	100	69-130	9	20		
Bromoform	ug/kg	<25.0	1490	1490	1460	1380	98	92	57-130	6	20		
Bromomethane	ug/kg	<69.9	1490	1490	1240	1210	83	81	34-145	2	20		
Carbon tetrachloride	ug/kg	<25.0	1490	1490	1290	1260	86	85	54-133	2	20		
Chlorobenzene	ug/kg	<25.0	1490	1490	1410	1370	95	92	70-130	3	20		
Chloroethane	ug/kg	<67.0	1490	1490	1430	1430	96	96	33-165	0	20		
Chloroform	ug/kg	<46.4	1490	1490	1340	1390	90	93	72-128	4	20		
Chloromethane	ug/kg	<25.0	1490	1490	656	677	44	45	20-120	3	20		
cis-1,2-Dichloroethene	ug/kg	<25.0	1490	1490	1410	1440	95	96	69-130	2	20		
cis-1,3-Dichloropropene	ug/kg	<25.0	1490	1490	1350	1490	91	100	65-130	10	20		
Dibromochloromethane	ug/kg	<25.0	1490	1490	1500	1430	101	96	65-130	5	20		
Dichlorodifluoromethane	ug/kg	<25.0	1490	1490	378	360	25	24	10-109	5	29		
Ethylbenzene	ug/kg	<25.0	1490	1490	1420	1440	95	97	63-127	2	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1490	1490	1460	1380	98	93	66-130	5	20		
m&p-Xylene	ug/kg	<50.0	2980	2980	3010	3060	101	103	70-130	1	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1490	1490	1480	1490	99	100	62-135	1	20		
Methylene Chloride	ug/kg	70.3J	1490	1490	1600	1570	102	101	68-129	2	20		
o-Xylene	ug/kg	<25.0	1490	1490	1380	1470	93	98	69-130	6	20		
Styrene	ug/kg	<25.0	1490	1490	1460	1470	98	98	70-130	0	20		
Tetrachloroethene	ug/kg	<25.0	1490	1490	1280	1270	86	85	70-130	0	20		
Toluene	ug/kg	<25.0	1490	1490	1460	1460	98	98	80-123	0	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1490	1490	1410	1510	95	101	70-130	7	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1490	1490	1520	1510	102	101	67-130	1	20		
Trichloroethene	ug/kg	<25.0	1490	1490	1320	1380	89	93	70-130	4	20		
Trichlorofluoromethane	ug/kg	<25.0	1490	1490	1260	1200	84	80	41-134	5	26		
Vinyl chloride	ug/kg	<25.0	1490	1490	855	856	57	57	39-122	0	20		
4-Bromofluorobenzene (S)	%						94	88	48-130				
Dibromofluoromethane (S)	%						102	113	57-148				
Toluene-d8 (S)	%						104	101	58-142				

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

QC Batch: 301132 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011

METHOD BLANK: 1758799 Matrix: Solid
Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007, 40176305008, 40176305009, 40176305010, 40176305011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	09/25/18 11:59	
2-Methylnaphthalene	ug/kg	<5.0	16.7	09/25/18 11:59	
Acenaphthene	ug/kg	<3.9	12.9	09/25/18 11:59	
Acenaphthylene	ug/kg	<3.3	11.0	09/25/18 11:59	
Anthracene	ug/kg	<5.7	19.0	09/25/18 11:59	
Benzo(a)anthracene	ug/kg	<3.2	10.6	09/25/18 11:59	
Benzo(a)pyrene	ug/kg	<2.5	8.4	09/25/18 11:59	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	09/25/18 11:59	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	09/25/18 11:59	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	09/25/18 11:59	
Chrysene	ug/kg	<3.4	11.2	09/25/18 11:59	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	09/25/18 11:59	
Fluoranthene	ug/kg	<5.2	17.4	09/25/18 11:59	
Fluorene	ug/kg	<4.1	13.8	09/25/18 11:59	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	09/25/18 11:59	
Naphthalene	ug/kg	<8.4	28.1	09/25/18 11:59	
Phenanthrene	ug/kg	<11.6	38.8	09/25/18 11:59	
Pyrene	ug/kg	<4.5	15.0	09/25/18 11:59	
2-Fluorobiphenyl (S)	%	77	10-115	09/25/18 11:59	
Terphenyl-d14 (S)	%	71	10-121	09/25/18 11:59	

LABORATORY CONTROL SAMPLE: 1758800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	265	79	45-103	
2-Methylnaphthalene	ug/kg	333	250	75	43-98	
Acenaphthene	ug/kg	333	252	76	43-100	
Acenaphthylene	ug/kg	333	236	71	40-100	
Anthracene	ug/kg	333	248	74	50-113	
Benzo(a)anthracene	ug/kg	333	237	71	49-102	
Benzo(a)pyrene	ug/kg	333	267	80	51-105	
Benzo(b)fluoranthene	ug/kg	333	268	80	49-105	
Benzo(g,h,i)perylene	ug/kg	333	223	67	34-113	
Benzo(k)fluoranthene	ug/kg	333	279	84	54-110	
Chrysene	ug/kg	333	268	80	55-116	
Dibenz(a,h)anthracene	ug/kg	333	217	65	45-108	
Fluoranthene	ug/kg	333	271	81	50-118	
Fluorene	ug/kg	333	256	77	41-103	

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

LABORATORY CONTROL SAMPLE: 1758800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	223	67	43-115	
Naphthalene	ug/kg	333	237	71	44-92	
Phenanthrene	ug/kg	333	259	78	51-104	
Pyrene	ug/kg	333	247	74	51-106	
2-Fluorobiphenyl (S)	%			73	10-115	
Terphenyl-d14 (S)	%			66	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758801 1758802

Parameter	Units	40175843006		1758801		1758802		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/kg	1530	366	368	1180J	1120J	-95	-111	21-105	30	M6	
2-Methylnaphthalene	ug/kg	3460	366	368	2310	2250	-314	-328	18-103	2	29 M6	
Acenaphthene	ug/kg	<341	366	368	<341	<342	68	62	31-100		28	
Acenaphthylene	ug/kg	<290	366	368	<290	<290	68	61	30-100		27	
Anthracene	ug/kg	<502	366	368	<502	<503	67	58	27-113		30	
Benzo(a)anthracene	ug/kg	<279	366	368	362J	339J	99	92	28-102		30	
Benzo(a)pyrene	ug/kg	<221	366	368	221J	<221	60	50	27-105		32	
Benzo(b)fluoranthene	ug/kg	<248	366	368	258J	<249	70	62	24-109		37	
Benzo(g,h,i)perylene	ug/kg	<179	366	368	<179	<179	0	0	10-113		38 M6	
Benzo(k)fluoranthene	ug/kg	<221	366	368	267J	<221	73	57	35-110		31	
Chrysene	ug/kg	<296	366	368	<297	<297	80	72	29-116		29	
Dibenz(a,h)anthracene	ug/kg	<197	366	368	<197	<197	0	0	22-108		32 M6	
Fluoranthene	ug/kg	<458	366	368	<458	<459	82	74	27-118		34	
Fluorene	ug/kg	<364	366	368	<364	<365	73	65	31-103		28	
Indeno(1,2,3-cd)pyrene	ug/kg	<193	366	368	<193	<194	0	0	18-115		33 M6	
Naphthalene	ug/kg	24400	366	368	15700	15600	-2390	-2410	34-92	1	31 M6	
Phenanthrene	ug/kg	<1020	366	368	<1020	<1030	56	48	28-104		32	
Pyrene	ug/kg	<397	366	368	<397	<398	80	76	13-117		40	
2-Fluorobiphenyl (S)	%						67	61	10-115			
Terphenyl-d14 (S)	%						61	57	10-121			

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

QC Batch: 301133 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40176305012, 40176305013, 40176305014, 40176305015

METHOD BLANK: 1758803 Matrix: Solid
Associated Lab Samples: 40176305012, 40176305013, 40176305014, 40176305015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	09/25/18 14:00	
2-Methylnaphthalene	ug/kg	<5.0	16.7	09/25/18 14:00	
Acenaphthene	ug/kg	<3.9	12.9	09/25/18 14:00	
Acenaphthylene	ug/kg	<3.3	11.0	09/25/18 14:00	
Anthracene	ug/kg	<5.7	19.0	09/25/18 14:00	
Benzo(a)anthracene	ug/kg	<3.2	10.6	09/25/18 14:00	
Benzo(a)pyrene	ug/kg	<2.5	8.4	09/25/18 14:00	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	09/25/18 14:00	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	09/25/18 14:00	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	09/25/18 14:00	
Chrysene	ug/kg	<3.4	11.2	09/25/18 14:00	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	09/25/18 14:00	
Fluoranthene	ug/kg	<5.2	17.4	09/25/18 14:00	
Fluorene	ug/kg	<4.1	13.8	09/25/18 14:00	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	09/25/18 14:00	
Naphthalene	ug/kg	<8.4	28.1	09/25/18 14:00	
Phenanthrene	ug/kg	<11.7	38.8	09/25/18 14:00	
Pyrene	ug/kg	<4.5	15.0	09/25/18 14:00	
2-Fluorobiphenyl (S)	%	70	10-115	09/25/18 14:00	
Terphenyl-d14 (S)	%	61	10-121	09/25/18 14:00	

LABORATORY CONTROL SAMPLE: 1758804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	189	57	45-103	
2-Methylnaphthalene	ug/kg	333	182	54	43-98	
Acenaphthene	ug/kg	333	190	57	43-100	
Acenaphthylene	ug/kg	333	175	52	40-100	
Anthracene	ug/kg	333	199	60	50-113	
Benzo(a)anthracene	ug/kg	333	204	61	49-102	
Benzo(a)pyrene	ug/kg	333	224	67	51-105	
Benzo(b)fluoranthene	ug/kg	333	220	66	49-105	
Benzo(g,h,i)perylene	ug/kg	333	203	61	34-113	
Benzo(k)fluoranthene	ug/kg	333	246	74	54-110	
Chrysene	ug/kg	333	229	69	55-116	
Dibenz(a,h)anthracene	ug/kg	333	169	51	45-108	
Fluoranthene	ug/kg	333	223	67	50-118	
Fluorene	ug/kg	333	194	58	41-103	
Indeno(1,2,3-cd)pyrene	ug/kg	333	189	57	43-115	
Naphthalene	ug/kg	333	185	56	44-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

LABORATORY CONTROL SAMPLE: 1758804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	209	63	51-104	
Pyrene	ug/kg	333	210	63	51-106	
2-Fluorobiphenyl (S)	%			55	10-115	
Terphenyl-d14 (S)	%			56	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1758805 1758806

Parameter	Units	40176256003		1758805		1758806		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	ug/kg	<4.8	393	393	219	234	55	59	21-105	6	30			
2-Methylnaphthalene	ug/kg	<5.9	393	393	208	221	52	55	18-103	6	29			
Acenaphthene	ug/kg	<0.0046 mg/kg	393	393	232	242	59	61	31-100	4	28			
Acenaphthylene	ug/kg	<0.0039 mg/kg	393	393	212	218	54	55	30-100	3	27			
Anthracene	ug/kg	<0.0067 mg/kg	393	393	228	226	58	57	27-113	1	30			
Benzo(a)anthracene	ug/kg	<0.0037 mg/kg	393	393	218	216	55	55	28-102	1	30			
Benzo(a)pyrene	ug/kg	<0.0030 mg/kg	393	393	236	234	60	59	27-105	1	32			
Benzo(b)fluoranthene	ug/kg	<0.0033 mg/kg	393	393	243	232	62	59	24-109	5	37			
Benzo(g,h,i)perylene	ug/kg	<0.0024 mg/kg	393	393	221	219	56	56	10-113	1	38			
Benzo(k)fluoranthene	ug/kg	<0.0030 mg/kg	393	393	247	256	63	65	35-110	3	31			
Chrysene	ug/kg	<0.0040 mg/kg	393	393	248	249	63	63	29-116	0	29			
Dibenz(a,h)anthracene	ug/kg	<0.0026 mg/kg	393	393	196	190	50	48	22-108	3	32			
Fluoranthene	ug/kg	<0.0062 mg/kg	393	393	257	255	65	65	27-118	1	34			
Fluorene	ug/kg	<0.0049 mg/kg	393	393	234	235	60	60	31-103	0	28			
Indeno(1,2,3-cd)pyrene	ug/kg	<0.0026 mg/kg	393	393	214	209	54	53	18-115	2	33			
Naphthalene	ug/kg	0.022J mg/kg	393	393	219	222	50	51	34-92	1	31			
Phenanthrene	ug/kg	<0.014 mg/kg	393	393	245	243	62	62	28-104	1	32			
Pyrene	ug/kg	<0.0053 mg/kg	393	393	244	243	62	62	13-117	0	40			
2-Fluorobiphenyl (S)	%						53	59	10-115					
Terphenyl-d14 (S)	%						53	54	10-121					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

QC Batch: 301217

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40176305001, 40176305002, 40176305003, 40176305004, 40176305005, 40176305006, 40176305007,
40176305008, 40176305009, 40176305010, 40176305011, 40176305012, 40176305013, 40176305014,
40176305015

SAMPLE DUPLICATE: 1759134

Parameter	Units	40176257002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	17.4	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

WORKORDER QUALIFIERS

WO: 40176305

[1] Revised report per client request to add TCLP analysis to two samples.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18.0231.01 CRISTO REY

Pace Project No.: 40176305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176305001	B-1 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305002	B-2 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305003	B-4 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305004	B-12 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305005	B-12 (9.5-11)	EPA 3050	301034	EPA 6010	301409
40176305006	B-16 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305007	B-17 (6"-2.5)	EPA 3050	301034	EPA 6010	301409
40176305008	B-18 (6"-2)	EPA 3050	301034	EPA 6010	301409
40176305009	B-18 (9.5-11)	EPA 3050	301034	EPA 6010	301409
40176305010	B-19 (6"-3.5)	EPA 3050	301034	EPA 6010	301409
40176305011	B-20 (6"-3.5)	EPA 3050	301034	EPA 6010	301409
40176305012	B-21 (2-3.5)	EPA 3050	301034	EPA 6010	301409
40176305013	B-21 (14.5-16)	EPA 3050	301034	EPA 6010	301409
40176305014	B-23 (6"-2)	EPA 3050	301034	EPA 6010	301409
40176305015	B-23 (12-13.5)	EPA 3050	301034	EPA 6010	301409
40176305004	B-12 (2-3.5)	EPA 3010	303424	EPA 6010	303571
40176305012	B-21 (2-3.5)	EPA 3010	303424	EPA 6010	303571
40176305001	B-1 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305002	B-2 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305003	B-4 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305004	B-12 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305005	B-12 (9.5-11)	EPA 7471	301143	EPA 7471	301244
40176305006	B-16 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305007	B-17 (6"-2.5)	EPA 7471	301143	EPA 7471	301244
40176305008	B-18 (6"-2)	EPA 7471	301143	EPA 7471	301244
40176305009	B-18 (9.5-11)	EPA 7471	301143	EPA 7471	301244
40176305010	B-19 (6"-3.5)	EPA 7471	301143	EPA 7471	301244
40176305011	B-20 (6"-3.5)	EPA 7471	301143	EPA 7471	301244
40176305012	B-21 (2-3.5)	EPA 7471	301143	EPA 7471	301244
40176305013	B-21 (14.5-16)	EPA 7471	301143	EPA 7471	301244
40176305014	B-23 (6"-2)	EPA 7471	301143	EPA 7471	301244
40176305015	B-23 (12-13.5)	EPA 7471	301143	EPA 7471	301244
40176305001	B-1 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305002	B-2 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305003	B-4 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305004	B-12 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305005	B-12 (9.5-11)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305006	B-16 (2-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305007	B-17 (6"-2.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305008	B-18 (6"-2)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305009	B-18 (9.5-11)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305010	B-19 (6"-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305011	B-20 (6"-3.5)	EPA 3546	301132	EPA 8270 by SIM	301168
40176305012	B-21 (2-3.5)	EPA 3546	301133	EPA 8270 by SIM	301196
40176305013	B-21 (14.5-16)	EPA 3546	301133	EPA 8270 by SIM	301196
40176305014	B-23 (6"-2)	EPA 3546	301133	EPA 8270 by SIM	301196
40176305015	B-23 (12-13.5)	EPA 3546	301133	EPA 8270 by SIM	301196

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18.0231.01 CRISTO REY
Pace Project No.: 40176305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176305001	B-1 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305002	B-2 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305003	B-4 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305004	B-12 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305005	B-12 (9.5-11)	EPA 5035/5030B	301170	EPA 8260	301172
40176305006	B-16 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305007	B-17 (6"-2.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305008	B-18 (6"-2)	EPA 5035/5030B	301170	EPA 8260	301172
40176305009	B-18 (9.5-11)	EPA 5035/5030B	301170	EPA 8260	301172
40176305010	B-19 (6"-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305011	B-20 (6"-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305012	B-21 (2-3.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305013	B-21 (14.5-16)	EPA 5035/5030B	301170	EPA 8260	301172
40176305014	B-23 (6"-2)	EPA 5035/5030B	301170	EPA 8260	301172
40176305015	B-23 (12-13.5)	EPA 5035/5030B	301170	EPA 8260	301172
40176305001	B-1 (2-3.5)	ASTM D2974-87	301217		
40176305002	B-2 (2-3.5)	ASTM D2974-87	301217		
40176305003	B-4 (2-3.5)	ASTM D2974-87	301217		
40176305004	B-12 (2-3.5)	ASTM D2974-87	301217		
40176305005	B-12 (9.5-11)	ASTM D2974-87	301217		
40176305006	B-16 (2-3.5)	ASTM D2974-87	301217		
40176305007	B-17 (6"-2.5)	ASTM D2974-87	301217		
40176305008	B-18 (6"-2)	ASTM D2974-87	301217		
40176305009	B-18 (9.5-11)	ASTM D2974-87	301217		
40176305010	B-19 (6"-3.5)	ASTM D2974-87	301217		
40176305011	B-20 (6"-3.5)	ASTM D2974-87	301217		
40176305012	B-21 (2-3.5)	ASTM D2974-87	301217		
40176305013	B-21 (14.5-16)	ASTM D2974-87	301217		
40176305014	B-23 (6"-2)	ASTM D2974-87	301217		
40176305015	B-23 (12-13.5)	ASTM D2974-87	301217		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **hax and Associates**
 Branch/Location: **Milwaukee**
 Project Contact: **T. Peterson**
 Phone: **414-751-7279**
 Project Number: **18.0231.01**
 Project Name: **Cristo Rey**
 Project State: **WI**
 Sampled By (Print): **Alex Amundson**
 Sampled By (Sign):

PO #: _____ Regulatory Program: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	B-1(2-3.5)	9-18-18	9AM	S
002	B-2(2-3.5)		9:30	S
003	B-4(2-3.5)		10	S
004	B-12(2-3.5)		10:30	S
005	B-12(9.5-11)		10:45	S
006	B-16(2-3.5)		11	S
007	B-17(6"-2.5)		11:30	S
008	B-18(6"-2)		12PM	S
009	B-18(9.5-11)		12:15	S
010	B-19(6"-3.5)		12:30	S
011	B-20(6"-3.5)		1	S
012	B-21(2-3.5)		1:30	S
013	B-21(14.5-16)		1:45	S

Pace Analytical
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=D Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Y/N	Pick Letter	Analyses Requested	Matrix Codes
N	A	PAHS	W
N	A	PCPA Metals	DW
N	F	VOCS	SW

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40176305

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: **SAME**
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

CLIENT COMMENTS: _____ LAB COMMENTS (Lab Use Only): _____ Profile #: _____

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>[Signature]</i>	Date/Time: 9/21/18 11:55
Relinquished By: <i>Mary Fannin</i>	Date/Time: 9/21/18 1245
Relinquished By: <i>[Signature]</i>	Date/Time: 9/21/18 1510
Relinquished By: _____	Date/Time: _____

Received By: <i>Mary Fannin</i>	Date/Time: 9/21/18 11:55
Received By: <i>[Signature]</i>	Date/Time: 9/21/18 1245
Received By: <i>[Signature]</i>	Date/Time: 9/21/18 1510
Received By: _____	Date/Time: _____

PACE Project No. **40176305**

Receipt Temp = **20** °C

Sample Receipt pH **OK / Adjusted**

Cooler Custody Seal **Present / Not Present**
Intact / Not Intact

(Please Print Clearly)

Company Name: **haper and Associates**
 Branch/Location: **Milwaukee**
 Project Contact: **T. Peterson**
 Phone: **414-751-7279**
 Project Number: **18-0231.01**
 Project Name: **Cristo Rev**
 Project State: **WI**
 Sampled By (Print): **Alex Amundson**
 Sampled By (Sign):

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	B-23(6 th -2)	2	9:18:18	S
015	B-23(12-13.5)	2:45		S



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analysis Requested
N	A	PAHS
N	A	RCRA Metals
N	A	VOCs

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS | **LAB COMMENTS (Lab Use Only)** | **Profile #**

4076305
 SAME

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *[Signature]* Date/Time: 9/21/18 11:55
 Relinquished By: *Mary Fannin* Date/Time: 9/21/18 12:45
 Relinquished By: *[Signature]* Date/Time: 9/21/18 15:00
 Relinquished By: _____ Date/Time: _____

Received By: *Mary Fannin* Date/Time: 9/21/18 11:55
 Received By: *[Signature]* Date/Time: 9/21/18 12:45
 Received By: *[Signature]* Date/Time: 9/21/18 15:10
 Received By: _____ Date/Time: _____

PACE Project No. 4076305
 Receipt Temp = *RJ* °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Sample Preservation Receipt Form

Client Name: Kapow

Project # CA176305

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN			
001																																				2.5 / 5 / 10
002																																				2.5 / 5 / 10
003																																				2.5 / 5 / 10
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020																																				2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3C 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN: