



**CERTIFICATE OF ANALYSIS**

Casella Waste Services  
Attn: Tracy Markham  
165 Barefoot Road  
Southbridge, MA 01550

**Date Received:** 9/25/2015  
**Date Reported:** 10/9/2015  
**P.O. #:**  
**Work Order #:** 1509-20744

---

**DESCRIPTION:** SOUTHBRIDGE ANNUAL RESIDENTIAL WELL MONITORING

---

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory and a subcontracted laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.  
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI LAI0033, MA M-RI015, CT PH-0508, ME RI00015  
NH 2537, NY 11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 001

SAMPLE DESCRIPTION: 190 BERRY CORNER RD (47-A-1.3)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,4-Dioxane	See Attached		ug/l	EPA 522 MOD	10/2/2015 0:00	*TA
EDB/DBCP						
1,2-Dibromoethane (EDB)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
1,2-Dibromo-3-chloropropane (DBCP)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
Alkalinity (as CaCO3)	140	1.0	mg/l	SM2320B 18-21ed	9/25/2015 22:00	PTT
Total Dissolved Solids	220	10	mg/l	SM2540C 18-22ed	10/2/2015 20:45	JPB
Nitrate (as N)	0.08	0.05	mg/l	EPA 300.0	9/26/2015 4:14	TAH
Chloride	13	2.5	mg/l	EPA 300.0	9/26/2015 4:14	TAH
Sulfate	12	2.5	mg/l	EPA 300.0	9/26/2015 4:14	TAH
Total Cyanide	<0.01	0.01	mg/l	SM4500CN-C,E 18-22ed	10/2/2015 20:00	JDC
COD	<10	10	mg/l	SM5220D 18-21ed	10/6/2015 11:30	DEB
Volatile Organic Compounds						
Bromodichloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Bromoform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Dibromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Chloroform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2-Dibromoethane(EDB)	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Benzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Carbon Tetrachloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Trichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,4-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,1-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,1,1-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Vinyl Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Bromobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Bromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Chlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Chloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Chloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
2-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
4-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Dibromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,3-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Trans-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
cis-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Methylene Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,1-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 001

SAMPLE DESCRIPTION: 190 BERRY CORNER RD (47-A-1.3)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,3-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
cis-1,3-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
trans-1,3-Dichloropropylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
2,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Ethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Styrene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,1,2-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,1,1,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,1,2,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Tetrachloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2,3-Trichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Toluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
o-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
m,p-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Xylenes	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2-Dibromo-3-Chloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Bromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
n-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Dichlorodifluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Trichlorofluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Isopropylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Hexachlorobutadiene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
p-Isopropyltoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Naphthalene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
n-Propylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Sec-butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
tert-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2,3-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2,4-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,2,4-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
1,3,5-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
MTBE	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Acetone	<10	10	ug/l	EPA 524.2	10/2/2015 14:56	MEL
2-Butanone(MEK)	<10	10	ug/l	EPA 524.2	10/2/2015 14:56	MEL
4-Methyl-2-pentanone(MIBK)	<10	10	ug/l	EPA 524.2	10/2/2015 14:56	MEL
Surrogates			RANGE	EPA 524.2	10/2/2015 14:56	MEL
4-Bromofluorobenzene	92		80-120%	EPA 524.2	10/2/2015 14:56	MEL
1,2-Dichlorobenzene-d4	103		80-120%	EPA 524.2	10/2/2015 14:56	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 001

SAMPLE DESCRIPTION: 190 BERRY CORNER RD (47-A-1.3)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals Analyzed by ICPMS						
Arsenic	0.035	0.001	mg/l	EPA 200.8	10/2/2015 14:50	PJC
Lead	0.006	0.001	mg/l	EPA 200.8	10/2/2015 14:50	PJC
Selenium	<0.002	0.002	mg/l	EPA 200.8	10/2/2015 14:50	PJC
Total Metals						
Barium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Calcium	52.1	0.050	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Cadmium	<0.004	0.004	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Chromium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Copper	0.029	0.010	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Iron	<0.100	0.100	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Manganese	0.018	0.010	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/5/2015 14:38	JRW
Silver	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Sodium	7.4	3.0	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Zinc	0.046	0.020	mg/l	EPA 200.7	10/6/2015 17:24	JRW
Mercury Digestion				EPA 245.1	10/5/2015 12:44	JRW

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 002

SAMPLE DESCRIPTION: 194 BERRY CORNER RD (47-A-1.4)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 08:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,4-Dioxane	See Attached		ug/l	EPA 522 MOD	10/2/2015 0:00	*TA
EDB/DBCP						
1,2-Dibromoethane (EDB)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
1,2-Dibromo-3-chloropropane (DBCP)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
Alkalinity (as CaCO <sub>3</sub> )	72	1.0	mg/l	SM2320B 18-21ed	9/25/2015 22:00	PTT
Total Dissolved Solids	130	10	mg/l	SM2540C 18-22ed	10/2/2015 20:45	JPB
Nitrate (as N)	<0.05	0.05	mg/l	EPA 300.0	9/26/2015 4:29	TAH
Chloride	3.0	2.5	mg/l	EPA 300.0	9/26/2015 4:29	TAH
Sulfate	14	2.5	mg/l	EPA 300.0	9/26/2015 4:29	TAH
Total Cyanide	<0.01	0.01	mg/l	SM4500CN-C,E 18-22ed	10/2/2015 20:00	JDC
COD	<10	10	mg/l	SM5220D 18-21ed	10/6/2015 11:30	DEB
Volatile Organic Compounds						
Bromodichloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Bromoform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Dibromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Chloroform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2-Dibromoethane(EDB)	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Benzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Carbon Tetrachloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Trichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,4-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,1-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,1,1-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Vinyl Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Bromobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Bromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Chlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Chloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Chloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
2-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
4-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Dibromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,3-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Trans-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
cis-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Methylene Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,1-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL

**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

Casella Waste Services  
Date Received: 9/25/2015  
Work Order #: 1509-20744

Sample # 002

SAMPLE DESCRIPTION: 194 BERRY CORNER RD (47-A-1.4)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 08:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,3-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
cis-1,3-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
trans-1,3-Dichloropropylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
2,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Ethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Styrene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,1,2-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,1,1,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,1,2,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Tetrachloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2,3-Trichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Toluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
o-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
m,p-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Xylenes	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2-Dibromo-3-Chloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Bromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
n-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Dichlorodifluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Trichlorofluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Isopropylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Hexachlorobutadiene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
p-Isopropyltoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Naphthalene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
n-Propylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Sec-butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
tert-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2,3-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2,4-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,2,4-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
1,3,5-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
MTBE	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Acetone	<10	10	ug/l	EPA 524.2	10/2/2015 15:24	MEL
2-Butanone(MEK)	<10	10	ug/l	EPA 524.2	10/2/2015 15:24	MEL
4-Methyl-2-pentanone(MIBK)	<10	10	ug/l	EPA 524.2	10/2/2015 15:24	MEL
Surrogates			RANGE	EPA 524.2	10/2/2015 15:24	MEL
4-Bromofluorobenzene	90		80-120%	EPA 524.2	10/2/2015 15:24	MEL
1,2-Dichlorobenzene-d4	104		80-120%	EPA 524.2	10/2/2015 15:24	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services  
 Date Received: 9/25/2015  
 Work Order #: 1509-20744

Sample # 002

SAMPLE DESCRIPTION: 194 BERRY CORNER RD (47-A-1.4)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 08:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals Analyzed by ICPMS						
Arsenic	0.006	0.001	mg/l	EPA 200.8	10/2/2015 15:11	PJC
Lead	<0.001	0.001	mg/l	EPA 200.8	10/2/2015 15:11	PJC
Selenium	<0.002	0.002	mg/l	EPA 200.8	10/2/2015 15:11	PJC
Total Metals						
Barium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Calcium	16.9	0.050	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Cadmium	<0.004	0.004	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Chromium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Copper	0.022	0.010	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Iron	<0.100	0.100	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Manganese	<0.010	0.010	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/5/2015 14:39	JRW
Silver	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Sodium	19	3.0	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Zinc	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:26	JRW
Mercury Digestion				EPA 245.1	10/5/2015 12:44	JRW

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 003

SAMPLE DESCRIPTION: 74 NO. TEN SCHOOL HOUSE RD (47-A-3.1)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/24/2015 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,4-Dioxane	See Attached		ug/l	EPA 522 MOD	10/2/2015 0:00	*TA
EDB/DBCP						
1,2-Dibromoethane (EDB)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
1,2-Dibromo-3-chloropropane (DBCP)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
Alkalinity (as CaCO <sub>3</sub> )	140	1.0	mg/l	SM2320B 18-21ed	9/25/2015 22:00	PTT
Total Dissolved Solids	230	10	mg/l	SM2540C 18-22ed	10/1/2015 12:54	KJK
Nitrate (as N)	<0.05	0.05	mg/l	EPA 300.0	9/26/2015 4:43	TAH
Chloride	13	2.5	mg/l	EPA 300.0	9/26/2015 4:43	TAH
Sulfate	40	2.5	mg/l	EPA 300.0	9/26/2015 4:43	TAH
Total Cyanide	<0.01	0.01	mg/l	SM4500CN-C,E 18-22ed	10/1/2015 16:30	JDC
COD	<10	10	mg/l	SM5220D 18-21ed	10/6/2015 11:30	DEB
Volatile Organic Compounds						
Bromodichloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Bromoform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Dibromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Chloroform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2-Dibromoethane(EDB)	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Benzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Carbon Tetrachloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Trichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,4-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,1-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,1,1-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Vinyl Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Bromobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Bromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Chlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Chloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Chloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
2-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
4-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Dibromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,3-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Trans-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
cis-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Methylene Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,1-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL



## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 003

SAMPLE DESCRIPTION: 74 NO. TEN SCHOOL HOUSE RD (47-A-3.1)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/24/2015 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,3-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
cis-1,3-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
trans-1,3-Dichloropropylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
2,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Ethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Styrene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,1,2-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,1,1,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,1,2,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Tetrachloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2,3-Trichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Toluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
o-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
m,p-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Xylenes	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2-Dibromo-3-Chloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Bromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
n-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Dichlorodifluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Trichlorofluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Isopropylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Hexachlorobutadiene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
p-Isopropyltoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Naphthalene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
n-Propylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Sec-butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
tert-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2,3-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2,4-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,2,4-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
1,3,5-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
MTBE	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Acetone	<10	10	ug/l	EPA 524.2	10/2/2015 15:53	MEL
2-Butanone(MEK)	<10	10	ug/l	EPA 524.2	10/2/2015 15:53	MEL
4-Methyl-2-pentanone(MIBK)	<10	10	ug/l	EPA 524.2	10/2/2015 15:53	MEL
Surrogates			RANGE	EPA 524.2	10/2/2015 15:53	MEL
4-Bromofluorobenzene	95		80-120%	EPA 524.2	10/2/2015 15:53	MEL
1,2-Dichlorobenzene-d4	103		80-120%	EPA 524.2	10/2/2015 15:53	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 003

SAMPLE DESCRIPTION: 74 NO. TEN SCHOOL HOUSE RD (47-A-3.1)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/24/2015 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals Analyzed by ICPMS						
Arsenic	0.006	0.001	mg/l	EPA 200.8	10/2/2015 15:17	PJC
Lead	<0.001	0.001	mg/l	EPA 200.8	10/2/2015 15:17	PJC
Selenium	<0.002	0.002	mg/l	EPA 200.8	10/2/2015 15:17	PJC
Total Metals						
Barium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Calcium	61.7	0.050	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Cadmium	<0.004	0.004	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Chromium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Copper	<0.010	0.010	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Iron	<0.100	0.100	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Manganese	<0.010	0.010	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/5/2015 14:40	JRW
Silver	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Sodium	8.5	3.0	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Zinc	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:29	JRW
Mercury Digestion				EPA 245.1	10/5/2015 12:44	JRW

The container for Alkalinity analysis was not received filled as required by methodology. Sample was analyzed as received.

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 004

SAMPLE DESCRIPTION: 173 BERRY CORNER RD (47-B-4.3)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,4-Dioxane	See Attached		ug/l	EPA 522 MOD	10/2/2015 0:00	*TA
EDB/DBCP						
1,2-Dibromoethane (EDB)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
1,2-Dibromo-3-chloropropane (DBCP)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
Alkalinity (as CaCO3)	80	1.0	mg/l	SM2320B 18-21ed	9/25/2015 22:00	PTT
Total Dissolved Solids	180	10	mg/l	SM2540C 18-22ed	10/2/2015 20:45	JPB
Nitrate (as N)	<0.05	0.05	mg/l	EPA 300.0	9/26/2015 4:57	TAH
Chloride	15	2.5	mg/l	EPA 300.0	9/26/2015 4:57	TAH
Sulfate	25	2.5	mg/l	EPA 300.0	9/26/2015 4:57	TAH
Total Cyanide	<0.01	0.01	mg/l	SM4500CN-C,E 18-22ed	10/6/2015 14:50	JDC
COD	<10	10	mg/l	SM5220D 18-21ed	10/6/2015 11:30	DEB
Volatile Organic Compounds						
Bromodichloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Bromoform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Dibromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Chloroform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2-Dibromoethane(EDB)	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Benzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Carbon Tetrachloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Trichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,4-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,1-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,1,1-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Vinyl Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Bromobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Bromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Chlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Chloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Chloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
2-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
4-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Dibromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,3-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Trans-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
cis-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Methylene Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,1-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 004

SAMPLE DESCRIPTION: 173 BERRY CORNER RD (47-B-4.3)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,3-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
cis-1,3-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
trans-1,3-Dichloropropylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
2,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Ethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Styrene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,1,2-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,1,1,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,1,2,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Tetrachloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2,3-Trichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Toluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
o-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
m,p-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Xylenes	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2-Dibromo-3-Chloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Bromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
n-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Dichlorodifluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Trichlorofluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Isopropylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Hexachlorobutadiene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
p-Isopropyltoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Naphthalene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
n-Propylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Sec-butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
tert-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2,3-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2,4-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,2,4-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
1,3,5-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
MTBE	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Acetone	<10	10	ug/l	EPA 524.2	10/2/2015 16:21	MEL
2-Butanone(MEK)	<10	10	ug/l	EPA 524.2	10/2/2015 16:21	MEL
4-Methyl-2-pentanone(MIBK)	<10	10	ug/l	EPA 524.2	10/2/2015 16:21	MEL
Surrogates			RANGE	EPA 524.2	10/2/2015 16:21	MEL
4-Bromofluorobenzene	91		80-120%	EPA 524.2	10/2/2015 16:21	MEL
1,2-Dichlorobenzene-d4	103		80-120%	EPA 524.2	10/2/2015 16:21	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 004

SAMPLE DESCRIPTION: 173 BERRY CORNER RD (47-B-4.3)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals Analyzed by ICPMS						
Arsenic	<0.001	0.001	mg/l	EPA 200.8	10/2/2015 15:22	PJC
Lead	<0.001	0.001	mg/l	EPA 200.8	10/2/2015 15:22	PJC
Selenium	<0.002	0.002	mg/l	EPA 200.8	10/2/2015 15:22	PJC
Total Metals						
Barium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Calcium	40.3	0.050	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Cadmium	<0.004	0.004	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Chromium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Copper	<0.010	0.010	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Iron	<0.100	0.100	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Manganese	<0.010	0.010	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/5/2015 14:41	JRW
Silver	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Sodium	7.0	3.0	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Zinc	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:32	JRW
Mercury Digestion				EPA 245.1	10/5/2015 12:44	JRW

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 005

SAMPLE DESCRIPTION: 81 H. FOOTE RD (62-A-15.4)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,4-Dioxane	See Attached		ug/l	EPA 522 MOD	10/2/2015 0:00	*TA
EDB/DBCP						
1,2-Dibromoethane (EDB)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
1,2-Dibromo-3-chloropropane (DBCP)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
Alkalinity (as CaCO <sub>3</sub> )	110	1.0	mg/l	SM2320B 18-21ed	9/25/2015 22:00	PTT
Total Dissolved Solids	190	10	mg/l	SM2540C 18-22ed	10/2/2015 20:45	JPB
Nitrate (as N)	<0.05	0.05	mg/l	EPA 300.0	9/26/2015 5:11	TAH
Chloride	17	2.5	mg/l	EPA 300.0	9/26/2015 5:11	TAH
Sulfate	24	2.5	mg/l	EPA 300.0	9/26/2015 5:11	TAH
Total Cyanide	<0.01	0.01	mg/l	SM4500CN-C,E 18-22ed	10/6/2015 14:50	JDC
COD	<10	10	mg/l	SM5220D 18-21ed	10/8/2015 11:30	DEB
Volatile Organic Compounds						
Bromodichloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Bromoform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Dibromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Chloroform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2-Dibromoethane(EDB)	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Benzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Carbon Tetrachloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Trichloroethene	2.6	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,4-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,1-Dichloroethane	3.9	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,1,1-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Vinyl Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Bromobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Bromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Chlorobenzene	4.2	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Chloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Chloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
2-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
4-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Dibromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,3-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Trans-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
cis-1,2-Dichloroethene	3.7	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Methylene Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,1-Dichloroethene	2.4	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 005

SAMPLE DESCRIPTION: 81 H. FOOTE RD (62-A-15.4)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,1-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,3-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
cis-1,3-Dichloropropene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
trans-1,3-Dichloropropylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
2,2-Dichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Ethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Styrene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,1,2-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,1,1,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,1,2,2-Tetrachloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Tetrachloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2,3-Trichloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Toluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
o-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
m,p-Xylene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Xylenes	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2-Dibromo-3-Chloropropane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Bromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
n-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Dichlorodifluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Trichlorofluoromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Isopropylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Hexachlorobutadiene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
p-Isopropyltoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Naphthalene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
n-Propylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Sec-butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
tert-Butylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2,3-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2,4-Trichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,2,4-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
1,3,5-Trimethylbenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
MTBE	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Acetone	<10	10	ug/l	EPA 524.2	10/2/2015 16:50	MEL
2-Butanone(MEK)	<10	10	ug/l	EPA 524.2	10/2/2015 16:50	MEL
4-Methyl-2-pentanone(MIBK)	<10	10	ug/l	EPA 524.2	10/2/2015 16:50	MEL
Surrogates			RANGE	EPA 524.2	10/2/2015 16:50	MEL
4-Bromofluorobenzene	92		80-120%	EPA 524.2	10/2/2015 16:50	MEL
1,2-Dichlorobenzene-d4	103		80-120%	EPA 524.2	10/2/2015 16:50	MEL

## R.I. Analytical Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Casella Waste Services

Date Received: 9/25/2015

Work Order #: 1509-20744

Sample # 005

SAMPLE DESCRIPTION: 81 H. FOOTE RD (62-A-15.4)

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/25/2015 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals Analyzed by ICPMS						
Arsenic	0.009	0.001	mg/l	EPA 200.8	10/2/2015 15:38	PJC
Lead	0.002	0.001	mg/l	EPA 200.8	10/2/2015 15:38	PJC
Selenium	<0.002	0.002	mg/l	EPA 200.8	10/2/2015 15:38	PJC
Total Metals						
Barium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Calcium	50.5	0.050	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Cadmium	<0.004	0.004	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Chromium	<0.005	0.005	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Copper	0.037	0.010	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Iron	<0.100	0.100	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Manganese	<0.010	0.010	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/5/2015 14:43	JRW
Silver	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Sodium	12	3.0	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Zinc	<0.020	0.020	mg/l	EPA 200.7	10/6/2015 17:35	JRW
Mercury Digestion				EPA 245.1	10/5/2015 12:44	JRW

The container for Alkalinity analysis was not received filled as required by methodology. Sample was analyzed as received.



**R.I. Analytical Laboratories, Inc.**  
**CERTIFICATE OF ANALYSIS**

Casella Waste Services  
Date Received: 9/25/2015  
Work Order #: 1509-20744

Sample # 006  
SAMPLE DESCRIPTION: 68 H. FOOTE RD (63-A-1.2)  
SAMPLE TYPE: GRAB SAMPLE DATE/TIME: 9/25/2015 @ 10:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,4-Dioxane	See Attached		ug/l	EPA 522 MOD	10/2/2015 0:00	*TA
<b>EDB/DBCP</b>						
1,2-Dibromoethane (EDB)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
1,2-Dibromo-3-chloropropane (DBCP)	See Attached		ug/l	EPA 504.1	10/2/2015 0:00	*GS
Alkalinity (as CaCO <sub>3</sub> )	150	1.0	mg/l	SM2320B 18-21ed	9/25/2015 22:30	JDC
Total Dissolved Solids	160	10	mg/l	SM2540C 18-22ed	10/2/2015 20:45	JPB
Nitrate (as N)	<0.05	0.05	mg/l	EPA 300.0	9/26/2015 5:26	TAH
Chloride	32	2.5	mg/l	EPA 300.0	9/26/2015 5:26	TAH
Sulfate	31	2.5	mg/l	EPA 300.0	9/26/2015 5:26	TAH
Total Cyanide	<0.01	0.01	mg/l	SM4500CN-C,E 18-22ed	10/6/2015 14:50	JDC
COD	<10	10	mg/l	SM5220D 18-21ed	10/6/2015 11:30	DEB
<b>Volatile Organic Compounds</b>						
Bromodichloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Bromoform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Dibromochloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Chloroform	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,2-Dibromoethane(EDB)	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Benzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Carbon Tetrachloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,2-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Trichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,4-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,1-Dichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,1,1-Trichloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Vinyl Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Bromobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Bromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Chlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Chloroethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Chloromethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
2-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
4-Chlorotoluene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Dibromomethane	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,3-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,2-Dichlorobenzene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Trans-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
cis-1,2-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
Methylene Chloride	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL
1,1-Dichloroethene	<0.5	0.5	ug/l	EPA 524.2	10/2/2015 17:18	MEL