APPENDIX A

PBA 10 Data

Table A-1
Perkasie Borough Authority Well #10 Monthly Operations Data
Perkasie, PA

Jul-13 — Well # 10

Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	114	8.3	153.00	72.00	1.21
2	111	7.9	152.00	71.00	1.15
3	105	7.0	153.00	71.00	1.11
4	128	7.9	152.00	71.00	1.13
5	130	9.4	153.00	71.00	1.16
6	174	11.6	153.00	71.00	1.12
7	187	12.5	153.00	24.00	1.09
8	154	9.1	154.00	73.00	1.11
9	120	8.9	154.00	72.00	1.15
10	116	8.1	151.00	69.00	1.13
11	131	7.8	151.00	69.00	1.07
12	105	7.2	151.00	70.00	1.11
13	123	7.5	150.00	70.00	1.07
14	138	9.9	153.00	72.00	1.06
15	130	8.7	153.00	71.00	1.23
16	122	8.5	152.00	72.00	1.25
17	128	9.0	152.00	72.00	1.23
18	125	8.2	153.00	72.00	1.19
19	127	8.4	153.00	72.00	1.24
20	135	9.4	153.00	73.00	1.14
21	152	8.9	153.00	72.00	1.10
22	109	7.8	155.00	73.00	1.08
23	123	8.6	154.00	72.00	1.06
24	116	7.9	154.00	73.00	1.02
25	116	7.8	153.00	73.00	0.98
26	112	7.6	154.00	73.00	1.07
27	122	8.2	152.00	73.00	0.94
28	147	9.2	152.00	73.00	0.91
29	114	8.2	152.00	73.00	1.03
30	117	7.8	152.00	73.00	1.00
31	116	5.9	153.00	72.00	1.09
TOTAL	3,947	263.1			
AVG	127.32	8.49	152.68	70.26	1.10

Aug-13 — Well # 10

Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	129	8.1	154.00	72.00	1.11
2	107	7.6	154.00	72.00	1.11
3	105	7.9	151.00	72.00	1.14
4	143	9.2	151.00	77.00	1.08
5	120	7.9	152.00	72.00	1.11
6	121	7.5	152.00	72.00	1.03
7	119	8.1	152.00	73.00	1.11
8	130	9.2	151.00	72.00	1.13
9	119	8.1	152.00	72.00	1.16
10	118	8.0	152.00	72.00	1.11
11	152	9.1	153.00	73.00	0.98
12	117	8.3	152.00	73.00	1.13
13	112	7.5	151.00	73.00	1.13
14	114	8.1	151.00	73.00	1.10
15	219	8.0	150.00	73.00	1.10
16	12	7.5	151.00	73.00	1.00
17	149	8.3	151.00	73.00	1.05
18	127	9.1	151.00	73.00	1.12
19	122	8.9	151.00	73.00	1.17
20	120	8.4	152.00	73.00	1.10
21	118	7.8	153.00	73.00	1.09
22	156	9.9	152.00	73.00	0.99
23	100	7.8	153.00	75.00	1.08
24	128	8.5	151.00	73.00	1.02
25	164	9.8	152.00	73.00	1.04
26	124	8.6	151.00	76.00	1.02
27	130	9.1	150.00	74.00	1.10
28	131	8.2	152.00	74.00	1.12
29	129	9.1	152.00	76.00	1.11
30	124	8.1	152.00	75.00	1.05
31	122	7.1	152.00	74.00	1.11
TOTAL	3,881	258.8			
AVG	125.19	8.35	151.74	73.29	1.09

Sep-13 — Well # 10

Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	114	6.5	153.00	74.00	1.01
2	151	10.7	159.00	74.00	0.92
3	106	7.6	159.00	75.00	1.12
4	100	7.0	161.00	75.00	1.10
5	98	7.3	160.00	74.00	1.09
6	87	8.3	161.00	74.00	1.07
7	110	7.1	161.00	73.00	1.05
8	88	8.6	161.00	74.00	1.09
9	79	6.8	162.00	74.00	1.17
10	79	7.2	160.00	73.00	1.07
11	77	7.4	160.00	73.00	1.15
12	69	6.8	160.00	73.00	1.13
13	52	6.2	160.00	73.00	1.10
14	63	6.9	157.00	69.00	1.08
15	75	8.2	156.00	70.00	1.08
16	71	7.8	154.00	68.00	1.10
17	66	7.9	155.00	68.00	1.12
18	56	6.9	152.00	67.00	1.11
19	56	6.6	150.00	66.00	1.11
20	46	5.6	150.00	65.00	1.17
21	57	6.0	151.00	65.00	1.04
22	112	13.5	150.00	64.00	1.03
23	63	7.4	156.00	66.00	1.05
24	58	6.7	151.00	64.00	0.99
25	48	6.2	149.00	63.00	1.03
26	68	6.4	147.00	63.00	1.06
27	64	6.0	146.00	63.00	1.25
28	74	6.9	146.00	63.00	1.18
29	94	8.8	140.00	63.00	1.08
30	48	4.5	137.00	62.00	1.21
TOTAL	2,330	217.9			
AVG	77.66	7.26	154.13	68.93	1.09

Oct-13 — Well # 10

Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	0	6.78	136.00	62.00	1.15
2	0	1.50	135.00	62.00	1.12
3	0	0.00	132.00	62.00	0.94
4	0	0.00	0.00	60.00	0.90
5	0	0.00	0.00	59.00	0.89
6	0	0.00	0.00	59.00	0.85
7	0	0.00	0.00	59.00	0.77
8	0	0.48	0.00	59.00	0.73
9	0	0.00	0.00	59.00	0.73
10	0	0.00	0.00	59.00	0.73
11	0	0.00	0.00	59.00	0.86
12	0	0.00	0.00	58.00	0.87
13	0	0.00	0.00	58.00	0.86
14	0	0.00	0.00	57.00	0.85
15	0	0.00	0.00	56.00	0.76
16	0	0.00	0.00	55.00	0.73
17	0	0.00	0.00	55.00	0.69
18	0	0.00	0.00	55.00	0.67
19	0	0.00	0.00	56.00	0.81
20	0	0.00	0.00	56.00	0.57
21	0	0.00	0.00	56.00	0.65
22	0	0.00	0.00	56.00	0.52
23	0	0.00	0.00	56.00	0.70
24	0	0.00	0.00	56.00	0.64
25	0	0.00	0.00	57.00	0.62
26	0	0.00	0.00	57.00	0.63
27	0	0.00	0.00	57.00	0.63
28	0	0.00	0.00	57.00	0.62
29	0	0.00	0.00	58.00	0.61
30	0	0.00	0.00	57.00	0.54
31	0	0.00	0.00	57.00	0.54
TOTAL	0	8.8			
AVG	0.00	0.28	13.00	57.71	0.74

Nov-13 — Well # 10

Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	0	0.00	0.00	57.00	0.54
2	0	0.00	0.00	57.00	0.67
3	0	0.00	0.00	57.00	0.66
4	0	0.00	0.00	58.00	0.67
5	0	0.00	0.00	58.00	0.64
6	0	0.00	0.00	58.00	0.61
7	0	0.00	0.00	57.00	0.61
8	0	0.00	0.00	57.00	0.54
9	0	0.00	0.00	58.00	0.74
10	0	0.00	0.00	58.00	0.74
11	0	0.00	0.00	58.00	0.74
12	0	0.00	0.00	58.00	0.76
13	0	0.00	0.00	58.00	0.73
14	0	0.00	0.00	58.00	0.73
15	0	0.87	0.00	58.00	0.98
16	13	0.00	0.00	58.00	0.82
17	0	0.00	0.00	57.00	1.13
18	0	0.00	0.00	58.00	0.89
19	0	0.00	0.00	58.00	0.83
20	0	0.00	0.00	58.00	0.76
21	31	2.02	0.00	58.00	1.17
22	0	0.00	0.00	59.00	0.41
23	0	0.00	0.00	65.00	0.69
24	0	0.00	0.00	58.00	0.80
25	20	1.33	0.00	58.00	0.88
26	32	2.07	0.00	59.00	1.18
27	114	7.78	0.00	58.00	0.58
28	114	7.10	139.00	64.00	1.29
29	102	6.85	144.00	63.00	1.54
30	104	6.38	144.00	64.00	1.30
TOTAL	530	34.4			
AVG	17.67	1.15	14.23	58.67	0.81

Dec-13 — Well # 10

Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	129	7.35	144.00	64.00	1.09
2	87	6.68	145.00	65.00	1.28
3	97	6.83	143.00	64.00	1.08
4	102	7.00	143.00	63.00	1.04
5	100	6.70	145.00	64.00	1.04
6	72	5.55	146.00	66.00	1.19
7	125	7.10	142.00	67.00	1.03
8	110	7.00	146.00	68.00	1.10
9	0	7.00	145.00	67.00	0.98
10	0	0.00	145.00	67.00	0.98
11	102	0.00	0.00	72.00	0.90
12	94	12.93	147.00	72.00	1.01
13	71	5.93	145.00	67.00	1.10
14	127	7.15	147.00	68.00	0.99
15	113	8.15	147.00	77.00	1.09
16	98	6.58	150.00	69.00	1.16
17	129	7.98	149.00	69.00	1.10
18	97	7.23	149.00	70.00	1.09
19	104	6.93	150.00	70.00	1.11
20	95	6.17	149.00	70.00	1.18
21	116	7.45	146.00	70.00	1.15
22	111	8.07	146.00	70.00	1.13
23	101	6.82	149.00	70.00	1.13
24	108	7.28	148.00	71.00	1.11
25	111	7.10	146.00	72.00	1.10
26	102	7.25	150.00	70.00	1.29
27	102	6.90	151.00	70.00	1.10
28	110	7.15	152.00	70.00	1.08
29	109	7.08	150.00	71.00	1.07
30	113	8.08	150.00	71.00	1.14
31	100	5.42	149.00	71.00	1.08
TOTAL	3,035	208.9			
AVG	97.90	6.74	142.39	68.87	1.09

Table A-1
Perkasie Borough Authority Well #10 Monthly Operations Data
Perkasie, PA

Jan-14						Feb-14						Mar-14						Apr-14					
Well # 10						Well # 10						Well # 10						Well # 10					
Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual	Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual	Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual	Day	Production	Hours Pumped	Pumping Level	Static Level	Chlorine Residual
1	118.00	7.93	148.00	71.00	1.04	1	117.00	7.70	146.00	67.00	1.07	1	109.00	7.73	148.00	70.00	1.10	1	142.00	7.18	149.00	71.00	0.99
2	96.00	6.50	151.00	71.00	1.08	2	123.00	7.78	149.00	66.00	1.09	2	130.00	7.48	150.00	70.00	1.08	2	102.00	6.98	149.00	70.00	1.01
3	102.00	6.93	149.00	70.00	1.18	3	218.00	14.05	146.00	69.00	1.17	3	110.00	8.48	149.00	71.00	1.15	3	101.00	6.87	151.00	70.00	1.01
4	110.00	7.35	151.00	71.00	1.10	4	117.00	7.70	151.00	71.00	1.07	4	104.00	7.22	149.00	71.00	0.97	4	98.00	6.22	151.00	70.00	0.96
5	143.00	9.00	152.00	71.00	1.09	5	118.50	7.90	152.00	74.00	1.02	5	105.00	7.12	149.00	71.00	1.07	5	112.00	7.32	149.00	69.00	1.05
6	102.00	7.53	150.00	72.00	1.15	6	120.00	8.00	149.00	70.00	1.15	6	111.00	6.72	150.00	71.00	1.07	6	127.00	8.70	150.00	70.00	1.08
7	104.00	7.07	150.00	72.00	1.08	7	96.00	6.47	148.00	70.00	1.09	7	103.00	6.43	150.00	71.00	1.24	7	104.00	7.32	150.00	71.00	1.08
8	103.00	6.88	150.00	72.00	1.06	8	110.00	7.00	149.00	69.00	1.08	8	97.00	8.25	146.00	70.00	1.07	8	104.00	7.20	150.00	70.00	1.07
9	103.00	7.03	151.00	72.00	1.05	9	127.00	7.88	148.00	70.00	1.07	9	133.00	8.43	150.00	72.00	1.07	9	88.00	5.77	150.00	70.00	1.18
10	30.00	1.32	152.00	71.00	1.13	10	105.00	7.70	148.00	71.00	1.11	10	104.00	6.92	150.00	71.00	1.08	10	104.00	7.07	148.00	69.00	1.08
11	0.00	0.00	150.00	73.00	0.99	11	101.00	7.18	149.00	71.00	1.19	11	108.00	7.32	152.00	70.00	1.07	11	120.00	8.12	151.00	70.00	1.05
12	4.00	0.40	0.00	66.00	0.93	12	93.00	6.22	149.00	70.00	1.17	12	114.00	7.75	151.00	70.00	1.01	12	184.00	12.72	150.00	71.00	0.97
13	109.00	7.88	131.00	65.00	1.03	13	105.00	7.13	151.00	70.00	1.14	13	106.00	7.10	151.00	70.00	1.05	13	235.00	15.70	153.00	75.00	0.99
14	107.00	7.18	146.00	67.00	1.04	14	98.00	6.63	150.00	70.00	1.12	14	89.00	6.30	150.00	71.00	1.07	14	118.00	6.75	157.00	75.00	1.05
15	127.00	7.97	146.00	68.00	1.07	15	108.00	7.70	148.00	70.00	1.08	15	110.00	7.20	150.00	70.00	1.02	15	93.00	6.78	154.00	73.00	1.03
16	110.00	7.97	149.00	69.00	1.10	16	129.00	8.27	149.00	71.00	1.09	16	135.00	8.95	150.00	70.00	1.00	16	104.00	7.83	152.00	72.00	1.09
17	87.00	6.43	147.00	68.00	1.12	17	115.00	7.10	149.00	71.00	1.13	17	105.00	7.10	150.00	71.00	1.04	17	101.00	6.85	151.00	71.00	1.09
18	115.00	7.18	147.00	66.00	1.10	18	109.80	7.65	150.00	71.00	1.22	18	101.00	6.85	150.00	70.00	1.05	18	100.00	6.78	147.00	71.00	1.08
19	132.00	7.83	144.00	66.00	1.11	19	105.10	7.07	151.00	71.00	1.05	19	111.00	7.55	152.00	70.00	1.01	19	135.00	8.53	147.00	71.00	1.03
20	105.00	8.12	142.00	66.00	1.13	20	102.00	7.05	148.00	71.00	1.02	20	105.00	6.92	150.00	72.00	1.05	20	112.00	8.20	150.00	71.00	1.03
21	99.00	6.62	146.00	67.00	1.12	21	94.00	6.13	149.00	70.00	1.15	21	95.00	6.35	151.00	70.00	1.08	21	120.00	7.48	152.00	70.00	1.03
22	123.00	7.52	142.00	67.00	1.07	22	107.00	7.47	150.00	70.00	1.12	22	106.00	7.35	148.00	70.00	1.05	22	104.00	7.63	151.00	70.00	1.05
23	102.00	7.38	146.00	67.00	1.21	23	129.00	8.22	150.00	70.00	1.09	23	136.00	9.03	148.00	71.00	1.02	23	110.00	6.70	147.00	70.00	1.05
24	91.00	6.53	146.00	67.00	1.10	24	109.00	7.62	150.00	70.00	1.14	24	99.00	6.68	152.00	71.00	1.08	24	106.00	7.42	151.00	70.00	1.04
25	108.00	6.98	141.00	67.00	1.10	25	103.00	7.12	151.00	70.00	1.08	25	115.00	7.75	151.00	70.00	0.99	25	97.00	6.08	149.00	71.00	1.04
26	136.00	9.02	146.00	68.00	1.04	26	106.00	7.08	150.00	70.00	1.02	26	101.00	6.78	150.00	70.00	1.17	26	107.00	7.55	150.00	69.00	1.05
27	104.00	7.05	144.00	67.00	1.10	27	110.00	6.68	149.00	70.00	0.99	27	119.00	7.70	150.00	70.00	1.00	27	113.00	8.17	150.00	69.00	1.04
28	119.00	6.62	149.00	66.00	1.05	28	75.20	5.07	150.00	70.00	1.20	28	94.00	6.70	151.00	71.00	1.04	28	118.00	7.27	150.00	70.00	1.03
29	110.00	8.18	148.00	65.00	1.18							29	106.00	7.10	150.00	70.00	1.01	29	96.00	7.13	152.00	70.00	1.05
30	116.00	8.13	147.00	65.00	1.06							30	118.00	7.87	150.00	70.00	0.99	30	96.00	3.80	148.00	70.00	1.04
31	99.00	4.30	145.00	66.00	1.09							31	70.00	4.85	151.00	70.00	1.07						
TOTAL	3,114	206.9				TOTAL	3,151	209.6				TOTAL	3,349	226.0				TOTAL	3,449	228.1			
AVG	100.45	6.67	142.13	68.35	1.09	AVG	112.52	7.46	149.25	70.18	1.10	AVG	108.03	7.29	149.97	70.48	1.06	AVG	114.97	7.60	150.30	70.63	1.04

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L1019470

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

6 Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Met pH
38 Temp control QC ID# 1LED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OX: OTHER

LAB USE ONLY

PROJECT

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 EP102 Vessel 2	9-10-13	9:23	X		DW	1				1					Arsenic	N/A
well 10 EP102 Raw	↓	9:21	↓		↓	3			3						VOC's	N/A
well 10 EP102 Finished	↓	9:31	↓		↓	3			3						VOC's	1.12

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE. DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	9-10-13	13:05	1	9/10/13	1425
2	9/10-13	1605	2	9/10/13	1605
3	DATE	TIME	3	DATE	TIME
4	DATE	TIME	4	DATE	TIME
5	DATE	TIME	5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No: L1019470

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH 4w 1/2pt pt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
3-8 Temp control OC ID# JL 1 LED

MATRIX CODES

OW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	9-10-13	11:07	X		DW	1								1	Bact / SPC	.93
~~3178716-12 Reservoir Low~~		11:10												1		.81
well 11 EP103 Raw		8:52								1					Arsenic	N/A
well 11 EP103 Blended		8:54														
well 11 EP103 Vessel 1		8:57														
well 11 EP103 Vessel 2		9:02														
well 11 EP103 Vessel 3		8:57														
well 10 EP102 Raw		9:17														
well 10 EP102 Finished		9:17														
well 10 EP102 Vessel 1		9:20														

SAMPLED BY: (Name/Company)

Verbal/fax data due: / /
Hardcopy due: / /

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	9-10-13	13:05	[signature]	9/10/13	1425
RELINQUISHED BY 2 [signature]	9-10-13	1605	RECEIVED BY 2 [signature]	9/10/13	1605
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No:W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1552601
PWSID No: 1090046

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

PP 78236

Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No:W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1552601
PWSID No: 1090046

Sample ID **Sample Description**
L1019470-11 WELL 10 EP 102 FINISHED
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Samp. Date/Time/Temp Sampled by
09/10/13 09:31am NA C Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued				
1,3-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
1,4-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:39PM ARG
2,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:39PM ARG
2-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
4-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:39PM ARG
BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
BROMOBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
BROMOCHLOROMETHANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:39PM ARG
BROMODICHLOROMETHANE	EPA 524.2	0.440 J ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
BROMOFORM	EPA 524.2	0.910 ug/l	0.0900 ug/l*	09/20/13 02:39PM ARG
BROMOMETHANE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:39PM ARG
CARBON TETRACHLORIDE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
CHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
CHLOROETHANE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:39PM ARG
CHLOROFORM	EPA 524.2	0.270 J ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
CHLOROMETHANE	EPA 524.2	ND ug/l	0.140 ug/l*	09/20/13 02:39PM ARG
CIS-1,2-DICHLOROETHENE	EPA 524.2	0.380 J ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
CIS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
DIBROMOCHLOROMETHANE	EPA 524.2	0.860 ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
DIBROMOMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
DICHLORODIFLUOROMETHANE	EPA 524.2	ND ug/l	0.260 ug/l*	09/20/13 02:39PM ARG
ETHYL BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
HEXACHLOROBUTADIENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
ISOPROPYLBENZENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
M&P-XYLENES	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:39PM ARG
METHYL TERTIARY BUTYL ETHER	EPA 524.2	ND ug/l	0.250 ug/l*	09/20/13 02:39PM ARG
METHYLENE CHLORIDE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:39PM ARG
N-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
N-PROPYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
NAPHTHALENE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:39PM ARG
O-XYLENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
P-ISOPROPYLTOLUENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
SEC-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
STYRENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
T-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
TETRACHLOROETHENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
TOLUENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
TRANS-1,2-DICHLOROETHENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
TRANS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
TRICHLOROETHENE	EPA 524.2	0.310 J ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
TRICHLOROFLUOROMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
VINYL CHLORIDE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:39PM ARG

***** STATE FORMS SENT ELECTRONICALLY *****

cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

PP 78236

Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1552601
PWSID No: 1090046

Sample ID L1019470-10 **Sample Description** WELL 10 EP 102 RAW
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 09/10/13 09:21am NA C **Sampled by** Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued				
DICHLORODIFLUOROMETHANE	EPA 524.2	ND ug/l	0.260 ug/l*	09/20/13 02:00PM ARG
ETHYL BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
HEXACHLOROBUTADIENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
ISOPROPYLBENZENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
M&P-XYLENES	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:00PM ARG
METHYL TERTIARY BUTYL ETHER	EPA 524.2	ND ug/l	0.250 ug/l*	09/20/13 02:00PM ARG
METHYLENE CHLORIDE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:00PM ARG
N-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
N-PROPYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
NAPHTHALENE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:00PM ARG
O-XYLENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
P-ISOPROPYLTOLUENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
SEC-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
STYRENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
T-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
TETRACHLOROETHENE	EPA 524.2	2.49 ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
TOLUENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
TRANS-1,2-DICHLOROETHENE	EPA 524.2	0.0700 J ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
TRANS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
TRICHLOROETHENE	EPA 524.2	37.0 ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
TRICHLOROFLUOROMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
VINYL CHLORIDE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:00PM ARG

Sample ID L1019470-11 **Sample Description** WELL 10 EP 102 FINISHED
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 09/10/13 09:31am NA C **Sampled by** Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES				
1,1,1,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,1,1-TRICHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,1,2,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.100 ug/l*	09/20/13 02:39PM ARG
1,1,2-TRICHLOROETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,1-DICHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,1-DICHLOROETHENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,1-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,2,3-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,2,3-TRICHLOROPROPANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:39PM ARG
1,2,4-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
1,2,4-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,2-DIBROMO-3-CHLOROPROPANE	EPA 524.2	ND ug/l	0.350 ug/l*	09/20/13 02:39PM ARG
1,2-DIBROMOETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,2-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
1,2-DICHLOROETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,3,5-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,3-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG

PP 78236

Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1552601
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L1019470-9 WELL 10 EP 102 VESSEL 2 09/10/13 09:23am NA C Customer
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	09/12/13 08:39PM JW

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L1019470-10 WELL 10 EP 102 RAW 09/10/13 09:21am NA C Customer
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES				
1,1,1,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,1,1-TRICHLOROETHANE	EPA 524.2	1.99 ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,1,2,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.100 ug/l*	09/20/13 02:00PM ARG
1,1,2-TRICHLOROETHANE	EPA 524.2	0.0700 J ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,1-DICHLOROETHANE	EPA 524.2	0.500 J ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,1-DICHLOROETHENE	EPA 524.2	3.85 ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,1-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,2,3-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,2,3-TRICHLOROPROPANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:00PM ARG
1,2,4-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
1,2,4-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,2-DIBROMO-3-CHLOROPROPANE	EPA 524.2	ND ug/l	0.350 ug/l*	09/20/13 02:00PM ARG
1,2-DIBROMOETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,2-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
1,2-DICHLOROETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,3,5-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,3-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,3-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
1,4-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:00PM ARG
2,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:00PM ARG
2-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
4-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:00PM ARG
BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
BROMOBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
BROMOCHLOROMETHANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:00PM ARG
BROMODICHLOROMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
BROMOFORM	EPA 524.2	ND ug/l	0.0900 ug/l*	09/20/13 02:00PM ARG
BROMOMETHANE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:00PM ARG
CARBON TETRACHLORIDE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
CHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
CHLOROETHANE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:00PM ARG
CHLOROFORM	EPA 524.2	0.0600 J ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
CHLOROMETHANE	EPA 524.2	ND ug/l	0.140 ug/l*	09/20/13 02:00PM ARG
CIS-1,2-DICHLOROETHENE	EPA 524.2	21.5 ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
CIS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
DIBROMOCHLOROMETHANE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
DIBROMOMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG

PP 78236 Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1552601
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-4	WELL 11 EP 103 VESSEL 2	09/10/13 09:02am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00400 mg/l	0.000500 mg/l*	09/12/13 08:04PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-5	WELL 11 EP 103 VESSEL 3	09/10/13 08:57am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00450 mg/l	0.000500 mg/l*	09/12/13 08:09PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-6	WELL 10 EP 102 RAW	09/10/13 09:17am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00850 mg/l	0.000500 mg/l*	09/12/13 08:24PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-7	WELL 10 EP 102 FINISHED	09/10/13 09:17am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00470 mg/l	0.000500 mg/l*	09/12/13 08:29PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-8	WELL 10 EP 102 VESSEL 1	09/10/13 09:20am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	09/12/13 08:34PM JW

PP 78236 Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1552601
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-1	WELL 11 EP 103 RAW	09/10/13 08:52am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.0129 mg/l	0.000500 mg/l*	09/12/13 07:49PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-2	WELL 11 EP 103 BLENDED	09/10/13 08:54am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00770 mg/l	0.000500 mg/l*	09/12/13 07:54PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-3	WELL 11 EP 103 VESSEL 1	09/10/13 08:57am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00390 mg/l	0.000500 mg/l*	09/12/13 07:59PM JW

PP 78236 Serial Number: 3095451

QC LABORATORIES

Analytical Report

Serialized: 09/26/2013 05:42pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L1019470

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
38 Temp control OK ID# ILED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	5-13-14	10:59	X		DW	1								1	Bact / SPC	.89
3178716-12 Reservoir Low		11:01														.93
3178716-13 Andersen Engineer		13:24														.79
3178716-14 Hart Mech.		12:02														.91
3178716-15 Three Mile Auto		11:49														.70
3178716-16 Hilltown Auto		13:32														.61
3178716-17 Draper Inc.		12:45														.58
well 11 EP103 Raw		8:21								1				1	Arsenic	N/A
well 11 EP103 Blended		8:21								1				1		
well 11 EP103 Vessel 1		8:26								1						

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE. DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	5-13-14	14:05	1 [signature]	5-13-14	1405
RELINQUISHED BY 2 [signature]	5-13-14	1530	RECEIVED BY 2 [signature]	5/13/14	1530
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

QA OFFICE

For example to aid completion, see reverse side.

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 3

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
3-8 Temp control OK ID# JLP 1LPD

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP.	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-1 Giant	5-13-14	13:12	X		DW	1								1	Bact/SPC	.75
3178716-2 Freshman Center		12:15														.78
3178716-3 The Perk		8:10														1.02
3178716-4 Prodesco		10:00														.77
3178716-5 Orbit		11:28														.67
3178716-6 M+S Oil		10:32														.68
3178716-7 Tri Valley Real Estate		9:45														.77
3178716-8 Bravo's		10:13														.99
3178716-9 PRA		13:55														.58
3178716-10 Landis		9:29														.83

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	5-13-14	14:05	1 John J Dunn	5-13-14	1405
2 John J Dunn	5/13/14	1530	2 Ann Doherty	5/13/14	1530
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL QC Laboratories

Picksheet: P5023952
Cust: W00505
Schd: 4638

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PWSID: 1090046

Expected: TUESDAY 05/13/14 - 05/13/14
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:
Comments/Schedule Details:

LAB USE ONLY

#_____ Ascorbic/HCL Vials
#_____ NA2S2O3
#_____ NaOH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved _____
#_____ HCL _____
#_____ NH4CL _____
#_____ MEOH _____
#_____ Na2SO3/HCL _____
#_____ DI Water _____

Bottle Type
#_____ HCL Vials

Field Tests By: /Time:

	HPC	eColi	Coli	Collection Date	Collection Time (Military)	Total # Bottles	Free Cl2 mg/L	pH/TempC	BR2 mg/L	Total CL2 mg/L	
5023952-11 EPA ORINKING WATER - RESERVOIR HIGH BAC SPC FORM	•	•	•								
5023952-12 EPA DRINKING WATER - RESERVOIR LOW BAC SPC FORM	•	•	•								
5023952-13 EPA DRINKING WATER BAC SPC FORM	•	•	•								
5023952-14 EPA DRINKING WATER BAC SPC FORM	•	•	•								
5023952-15 EPA DRINKING WATER BAC SPC FORM	•	•	•								

Office ID:

Sample Collected By	Circle One		Initials
	Client	QCL	

Required TAT: Standard ___/Rush___# Days ____

Relinquished By	Time	Date	Received By	Time	Date	Temp	Iced Y/N	Site	Initials

Comments (reporting, methods, etc)

Hazardous Y/N

M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: - Printed: 04/23/14 GPS X: -75.28949 Y: 40.37565

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-17 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PIN: 78236 Serial Number: 3616775

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

L5023952-2 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-3 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-4 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-5 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-6 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-7 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-8 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-9 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-10 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-11 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-12 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-13 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-14 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-15 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L5023952-16 :

PIN: 78236 Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L5023952-15 EPA DRINKING WATER - THREE MILE AUTO 05/13/14 11:49am NA C Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.70	0.02	mg/l	SM 4500CL G	1		05/13/14 11:49AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L5023952-16 EPA DRINKING WATER - HILLTOWN AUTO 05/13/14 01:32pm NA C Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS
FIELD SERVICES							
Chlorine, residual	0.61	0.02	mg/l	SM 4500CL G	1		05/13/14 01:32PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L5023952-17 EPA DRINKING WATER - DRAPER INC. 05/13/14 12:45pm NA C Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.58	0.02	mg/l	SM 4500CL G	1		05/13/14 12:45PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample Comments:

L5023952-1 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PIN: 78236 Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L5023952-13 **Sample Description** EPA DRINKING WATER - ANDERSEN ENGINEER **Samp. Date/Time/Temp** 05/13/14 01:24pm NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	67	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.79	0.02	mg/l	SM 4500CL G	1		05/13/14 01:24PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-14 **Sample Description** EPA DRINKING WATER - HART MECH **Samp. Date/Time/Temp** 05/13/14 12:02pm NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS
FIELD SERVICES							
Chlorine, residual	0.91	0.02	mg/l	SM 4500CL G	1		05/13/14 12:02PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-15 **Sample Description** EPA DRINKING WATER - THREE MILE AUTO **Samp. Date/Time/Temp** 05/13/14 11:49am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS

PIN: 78236 Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L5023952-10 **Sample Description** EPA DRINKING WATER - LANDIS **Samp. Date/Time/Temp** 05/13/14 09:29am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.83	0.02	mg/l	SM 4500CL G	1		05/13/14 09:29AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L5023952-11 **Sample Description** EPA DRINKING WATER - RESERVOIR HIGH **Samp. Date/Time/Temp** 05/13/14 10:59am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	11	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS
FIELD SERVICES							
Chlorine, residual	0.89	0.02	mg/l	SM 4500CL G	1		05/13/14 10:59AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L5023952-12 **Sample Description** EPA DRINKING WATER - RESERVOIR LOW **Samp. Date/Time/Temp** 05/13/14 11:01am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.93	0.02	mg/l	SM 4500CL G	1		05/13/14 11:01AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

PIN: 78236 Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L5023952-8 **Sample Description** EPA DRINKING WATER - BRAVO'S **Samp. Date/Time/Temp** 05/13/14 10:13am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		05/13/14 10:13AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-9 **Sample Description** EPA DRINKING WATER - PRA **Samp. Date/Time/Temp** 05/13/14 01:55pm NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	5	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.58	0.02	mg/l	SM 4500CL G	1		05/13/14 01:55PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-10 **Sample Description** EPA DRINKING WATER - LANDIS **Samp. Date/Time/Temp** 05/13/14 09:29am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS

PIN: 78236 Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5023952-5	EPA DRINKING WATER - ORBIT	05/13/14 11:28am NA C	Customer

Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.67	0.02	mg/l	SM 4500CL G	1		05/13/14 11:28AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5023952-6	EPA DRINKING WATER - M & S OIL	05/13/14 10:32am NA C	Customer

Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.68	0.02	mg/l	SM 4500CL G	1		05/13/14 10:32AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L5023952-7	EPA DRINKING WATER - TRI-VALLEY REAL ESTATE	05/13/14 09:45am NA C	Customer

Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	10	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.77	0.02	mg/l	SM 4500CL G	1		05/13/14 09:45AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PIN: 78236 Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1608150 PI
PWSID No: 1090046

Sample ID L5023952-3 **Sample Description** EPA DRINKING WATER - THE PERK
Samp. Date/Time/Temp 05/13/14 08:10am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS
FIELD SERVICES							
Chlorine, residual	1.02	0.02	mg/l	SM 4500CL G	1		05/13/14 08:10PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-4 **Sample Description** EPA DRINKING WATER - PRODESCO
Samp. Date/Time/Temp 05/13/14 10:00am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS
FIELD SERVICES							
Chlorine, residual	0.77	0.02	mg/l	SM 4500CL G	1		05/13/14 10:00AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-5 **Sample Description** EPA DRINKING WATER - ORBIT
Samp. Date/Time/Temp 05/13/14 11:28am NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS

PIN: 78236

Serial Number: 3616775

QC Laboratories

Analytical Report

Printed 05/23/14 16:32 QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1608150 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L5023952-1 **Sample Description** EPA DRINKING WATER - GIANT **Samp. Date/Time/Temp** 05/13/14 01:12pm NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:49PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:49PM BHS
FIELD SERVICES							
Chlorine, residual	0.75	0.02	mg/l	SM 4500CL G	1		05/13/14 01:12PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L5023952-2 **Sample Description** EPA DRINKING WATER - THE FRESHMAN CENTER **Samp. Date/Time/Temp** 05/13/14 12:15pm NA C **Sampled by** Customer
Received Date/Time/Temp 05/13/14 03:30pm 3.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	210	2	col/ml	SM 9215B	1		05/13/14 04:00PM BHS
Coliform, Colilert P/A	NEG	1	N/A	SM 9223B	1		05/13/14 05:48PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		05/13/14 05:48PM BHS
FIELD SERVICES							
Chlorine, residual	0.78	0.02	mg/l	SM 4500CL G	1		05/13/14 12:15PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PIN: 78236 Serial Number: 3616775

QC LABORATORIES

Analytical Report

Serialized: 05/23/2014 04:32pm QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L5023952

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
34 Temp control 6 C ID# 1 LEP

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-1 Reservoir High	4-18-14	11:20	X		DW	1								1	BACT/SPC	.98
3178716-12 Reservoir Low		11:23												1		.93
3178716-13 Andersen Engineer		11:46												1		.91
3178716-14 Hart Mech.		11:06												1		.90
3178716-15 Three Mile Run Au		10:54												1		1.01
3178716-16 Hilltown Auto		12:56												1		.65
3178716-17 Draper Inc		12:41												1		.57
well 11 EP103 Raw		8:33								1					Arsenic	N/A
well 11 EP103 Blended		8:33								1						
well 11 EP103 Vessel 1		8:45								1						

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig: Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	4-8-14	13:36	[illegible]	4-8-14	1400
RELINQUISHED BY 2 [illegible]	4-8-14	1530	RECEIVED BY 3 [illegible] Dougherty	4/8/14	1530
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 5	DATE	TIME
RELINQUISHED BY 5	DATE	TIME			

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:
Collected 4/8 not 4/18
[illegible] 4/8/14

Hazardous: yes / no

QA OFFICE

For example to aid completion, see reverse side.

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 3

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
3-4 Temp control ID# LLP

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	BacT	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-1 Giant	4-8-14	12:06	X		DW	1								1	BACT/SPC	.81
3178716-2 Freshmen Center		12:20														.82
3178716-3 The Perk		8:27														.99
3178716-4 Prodesco		10:17														.80
3178716-5 Orbit		10:37														.64
3178716-6 M+S Oil		13:20														.87
3178716-7 Tri Valley Real Estate		10:05														.80
3178716-8 Bravo's		9:52														.99
3178716-9 PRA		13:30														.58
3178716-10 Landis		9:35														.83

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	4-8-14	13:36	[signature]	4-8-14	1400
2 [signature]	4-8-14	1530	Eric Dougherty	4/8/14	1530
3					
4					
5					

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL QC Laboratories

Picksheet: P4981629
Cust: W00505
Schd: 4638

Expected: TUESDAY 04/08/14 - 04/08/14
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Comments/Schedule Details:

LAB USE ONLY — Bottle Type

#_____	Ascorbic/HCL Vials	#_____	HCL Vials
#_____	NA2S2O3		
#_____	NaOH/Zn acetate pH		
#_____	HNO3 pH		
#_____	H2SO4 pH		
#_____	NaOH pH		
#_____	Unpreserved		
#_____	HCL		
#_____	NH4CL		
#_____	MEOH		
#_____	Na2SO3/HCL		
#_____	DI Water		

Route: 1 JOHN DINAN

PWSID: 1090046

Field Tests By:

	HPC	eColi	Coli	Collection Date	Collection Time (Military)	Total #Bottles	Time (Military)	Free Cl2 mg/L	pH	BR2 mg/L	Total CL2 mg/L	Temp C
4981629-7 EPA DRINKING WATER - TRI-VALLEY REAL ESTATE BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-8 EPA DRINKING WATER - BRAVO'S BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-9 EPA DRINKING WATER - PRA BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-10 EPA DRINKING WATER - LANDIS BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-11 EPA DRINKING WATER - RESERVOIR HIGH BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-12 EPA DRINKING WATER - RESERVOIR LOW BAC SPC FORM				COLI	COLI	E COLI CO	SPC					

Sample Collected By	Circle One: Client / QCL	Initials

Required TAT: Standard ___/Rush___# Days _____

Relinquished By	Time	Date	Initials	Received By	Time	Date	Initials	Iced Y/N	Temp C	Seal OK Y/N/NA

Comments (reporting, methods, etc)

Hazardous Y/N

M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: - Printed: 03/19/14 GPS X: -75.28949 Y: 40.37565

QCL QC Laboratories

Picksheet: P4981629
Cust: W00505
Schd: 4638

Expected: TUESDAY 04/08/14 - 04/08/14
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Comments/Schedule Details:

Route: 1 JOHN DINAN

PWSID: 1090046

LAB USE ONLY		Bottle Type	
#_____	Ascorbic/HCL Vials	#_____	HCL Vials
#_____	NA2S2O3		
#_____	NaOH/Zn acetate pH _____		
#_____	HNO3 pH _____		
#_____	H2SO4 pH _____		
#_____	NaOH pH _____		
#_____	Unpreserved		
#_____	HCL		
#_____	NH4CL		
#_____	MEOH		
#_____	Na2SO3/HCL		
#_____	DI Water		

Field Tests By:

	HPC	eColi	Coli	Collection Date	Collection Time (Military)	Total #Bottles	Free Cl2 Time (Military)	Free Cl2 mg/l	pH	BR2 mg/l	Total CL2 mg/l	Temp C
4981629-1 EPA DRINKING WATER - GIANT BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-2 EPA DRINKING WATER - THE FRESHMAN CENTER BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-3 EPA DRINKING WATER - THE PERK BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-4 EPA DRINKING WATER - PRODESCO BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-5 EPA DRINKING WATER - ORBIT BAC SPC FORM				COLI	COLI	E COLI CO	SPC					
4981629-6 EPA DRINKING WATER - M & S OIL BAC SPC FORM				COLI	COLI	E COLI CO	SPC					

Sample Collected By	Circle One		Initials
	Client	QCL	

Required TAT: Standard ___/Rush___# Days _____

Relinquished By	Time	Date	Initials	Received By	Time	Date	Initials	Iced Y/N	Temp C	Seal OK Y/N/NA

Comments (reporting, methods, etc)

Hazardous Y/N

M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: - Printed: 03/19/14 GPS X: -75.28949 Y: 40.37565

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No:W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1598486 PAPERLESS
PWSID No: 1090046

The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-17 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PIN: 78236

Serial Number: 3502485

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1598486 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

L4981629-2 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-3 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-4 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-5 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-6 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-7 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-8 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-9 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-10 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-11 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-12 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-13 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-14 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-15 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4981629-16 :

PIN: 78236 Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1598486 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-15 EPA DRINKING WATER - THREE MILE RUN AUTO 04/08/14 10:54am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	1.01	0.02	mg/l	SM 4500CL G	1		04/08/14 10:54AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-16 EPA DRINKING WATER - HILLTOWN AUTO 04/08/14 12:56pm NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	4	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.65	0.02	mg/l	SM 4500CL G	1		04/08/14 12:56PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-17 EPA DRINKING WATER - DRAPER INC. 04/08/14 12:41pm NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.57	0.02	mg/l	SM 4500CL G	1		04/08/14 12:41PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample Comments:

L4981629-1 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PIN: 78236 Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1598486 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-13 EPA DRINKING WATER - ANDERSON ENGINEER 04/08/14 11:46am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.91	0.02	mg/l	SM 4500CL G	1		04/08/14 11:46AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-14 EPA DRINKING WATER - HART MECH 04/08/14 11:06am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.90	0.02	mg/l	SM 4500CL G	1		04/08/14 11:06AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-15 EPA DRINKING WATER - THREE MILE RUN AUTO 04/08/14 10:54am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS

PIN: 78236 Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1598486 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-10 EPA DRINKING WATER - LANDIS 04/08/14 09:35am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.83	0.02	mg/l	SM 4500CL G	1		04/08/14 09:35AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-11 EPA DRINKING WATER - RESERVOIR HIGH 04/08/14 11:20am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	3	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.98	0.02	mg/l	SM 4500CL G	1		04/08/14 11:20AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-12 EPA DRINKING WATER - RESERVOIR LOW 04/08/14 11:23am NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.93	0.02	mg/l	SM 4500CL G	1		04/08/14 11:23AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PIN: 78236 Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1598486 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981629-8	EPA DRINKING WATER - BRAVO'S	04/08/14 09:52am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		04/08/14 09:52AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981629-9	EPA DRINKING WATER - PRA	04/08/14 01:30pm NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	3	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.58	0.02	mg/l	SM 4500CL G	1		04/08/14 01:30PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981629-10	EPA DRINKING WATER - LANDIS	04/08/14 09:35am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS

PIN: 78236 Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1598486 PAPERLESS
PWSID No: 1090046

Sample ID L4981629-5 **Sample Description** EPA DRINKING WATER - ORBIT
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 04/08/14 10:37am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.64	0.02	mg/l	SM 4500CL G	1		04/08/14 10:37PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4981629-6 **Sample Description** EPA DRINKING WATER - M & S OIL
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 04/08/14 01:20pm NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.87	0.02	mg/l	SM 4500CL G	1		04/08/14 01:20PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4981629-7 **Sample Description** EPA DRINKING WATER - TRI-VALLEY REAL ESTATE
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 04/08/14 10:05am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	8	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.80	0.02	mg/l	SM 4500CL G	1		04/08/14 10:05AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PIN: 78236

Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1598486 PAPERLESS
PWSID No: 1090046

Sample ID L4981629-3 **Sample Description** EPA DRINKING WATER - THE PERK
Samp. Date/Time/Temp 04/08/14 08:27am NA C **Sampled by** Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		04/08/14 08:27AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4981629-4 **Sample Description** EPA DRINKING WATER - PRODESCO
Samp. Date/Time/Temp 04/08/14 10:17am NA C **Sampled by** Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.80	0.02	mg/l	SM 4500CL G	1		04/08/14 10:17AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4981629-5 **Sample Description** EPA DRINKING WATER - ORBIT
Samp. Date/Time/Temp 04/08/14 10:37am NA C **Sampled by** Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS

PIN: 78236

Serial Number: 3502485

QC Laboratories

Analytical Report

Printed 04/14/14 15:38 QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1598486 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-1 EPA DRINKING WATER - GIANT 04/08/14 12:06pm NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.81	0.02	mg/l	SM 4500CL G	1		04/08/14 12:06PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4981629-2 EPA DRINKING WATER - THE FRESHMAN CENTER 04/08/14 12:20pm NA C Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	62	2	col/ml	SM 9215B	1		04/08/14 04:10PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	100		04/08/14 05:41PM BHS
FIELD SERVICES							
Chlorine, residual	0.82	0.02	mg/l	SM 4500CL G	1		04/08/14 12:20PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PIN: 78236 Serial Number: 3502485

QC LABORATORIES

Analytical Report

Serialized: 04/14/2014 03:38pm QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4981629

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

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QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L 4981630

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
6 HNO_3 pH 12 kept
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
34 Temp control OL ID# [illegible]

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT:

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 11 EP103 Vessel 2	4-8-14	8:40	X		DW	1				1					Arsenic	N/A
well 11 EP103 Vessel 3	↓	8:40	↓		↓	↓				↓					↓	↓
well 10 EP102 Raw	↓	9:06	↓		↓	↓				↓					↓	↓
well 10 EP102 Finished	↓	9:06	↓		↓	↓				↓					↓	↓
well 10 EP102 Vessel 1	↓	9:12	↓		↓	↓				↓					↓	↓
well 10 EP102 Vessel 2	↓	9:07	↓		↓	↓				↓					↓	↓

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	4-8-14	13:36	1 [illegible]	4-8-14	1400
RELINQUISHED BY 2 [illegible]	4-8-14	1530	RECEIVED BY 2 [illegible] Doherty	4/8/14	1530
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4981630

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
3 HNO_3 pH <2 ½ pt pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
3-4° Temp control ☑ GD# [illegible]

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	UCOPE	Bact.	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	4-18-14	11:20	X		DW	1								1	BACT/SPC	.98
3178716-12 Reservoir Low		11:23												1		.93
3178716-13 Andersen Engineer		11:46												1		.91
3178716-14 Hart Mech.		11:06												1		.90
3178716-15 Three Mile Run Auto		10:54												1		1.01
3178716-16 Hilltown Auto.		12:56												1		.65
3178716-17 Draper Inc.		12:41												1		.57
well 11 EP103 Raw		8:33								1					Arsenic	N/A
well 11 EP103 Blended		8:33								1						
well 11 EP103 Vessel 1		8:45								1						

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	4-8-14	13:36	[illegible]	4-8-14	1400
2 [illegible]	4-8-14	1530	[illegible] Dougherty	4/8/14	1530
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:
Collected 4/8 not 4/18
[illegible] 4/8/14

Hazardous: yes / no

FINAL REPORT

For example to aid completion, see reverse side.

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 04/24/14 13:56

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1601032 PI
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981630-9	EP 102 WELL 10 VESSEL 2	04/08/14 09:07am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:26PM JW

PIN: 78236

Serial Number: 3529785

QC Laboratories

Analytical Report

Printed 04/24/14 13:56

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1601032 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981630-4	EP 103 WELL 11 VESSEL 2	04/08/14 08:40am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00500	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:13PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981630-5	EP 103 WELL 11 VESSEL 3	04/08/14 08:40am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00510	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:15PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981630-6	EP 102 WELL 10 RAW	04/08/14 09:06am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0110	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:18PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981630-7	EP 102 WELL 10 FINISHED	04/08/14 09:06am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00630	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:21PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4981630-8	EP 102 WELL 10 VESSEL 1	04/08/14 09:12am NA C	Customer

Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:23PM JW

PIN: 78236 Serial Number: 3529785

QC Laboratories

Analytical Report

Printed 04/24/14 13:56 QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1601032 PI
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4981630-1 **Sample Description** EP 103 WELL 11 RAW **Samp. Date/Time/Temp** 04/08/14 08:33am NA C **Sampled by** Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0144	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 07:53PM JW

Sample ID L4981630-2 **Sample Description** EP 103 WELL 11 BLENDED **Samp. Date/Time/Temp** 04/08/14 08:33am NA C **Sampled by** Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00870	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:01PM JW

Sample ID L4981630-3 **Sample Description** EP 103 WELL 11 VESSEL 1 **Samp. Date/Time/Temp** 04/08/14 08:45am NA C **Sampled by** Customer
Received Date/Time/Temp 04/08/14 03:30pm 3.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00470	0.00200	mg/l	EPA 200.8 Rev 5.4	1		04/16/14 08:04PM JW

PIN: 78236 Serial Number: 3529785

QC LABORATORIES

Analytical Report

Serialized: 04/24/2014 01:56pm QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4981630

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

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QCL

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Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Client/Acct. No. PRA-WQ0505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA. 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
42 Temp control OC ID# [illegible] (LED)

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	BACT	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	3-11-14	13:05	X		DW	1								1	BACT/SPC	1.01
3178716-12 Reservoir Low		13:10												1	BACT/SPC	.99
well 11 Raw		8:55								1					Metals	N/A
well 11 Blended EP103		8:55														
well 11 EP103 Vessel 1		8:57														
well 11 EP103 Vessel 2		8:57														
well 11 EP103 Vessel 3		9:05														
well 10 EP102 Raw		9:22														
well 10 EP102 Finished		9:22														
well 10 EP102 Vessel 1		9:29														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	3-11-14	13:45	1 [illegible]	3/1-14	1355
RELINQUISHED BY 2 [illegible]	3-11-14	1525	RECEIVED BY 2 [illegible]	3/11/14	1525
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

QA OFFICE

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 3

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (If different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
#2 Temp control QC ID# [illegible] ICED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OTHER

LAB USE ONLY

PROJECT

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpr	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-1 Giant	3-11-14	12:48	Y		DW	1								1	BACT / SPC	.99
3178716-2 Freshman Center		12:34														.70
3178716-3 The Park		8:40														1.10
3178716-4 Prodesco		10:35														.88
3178716-5 Orbit		11:20														.62
3178716-6 M+S Oil		10:52														.93
3178716-7 TriValley Real Estate		10:22														1.04
3178716-8 Bravo's		10:10														.92
3178716-9 PRA		13:37														.55
3178716-10 Landis		9:57														.99

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig: Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800. 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	3-11-14	13:35	1 [illegible]	3-11-14	1355
RELINQUISHED BY 2 [illegible]	3-11-14	1505	RECEIVED BY [illegible]	3/11/14	1525
RELINQUISHED BY	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PickSheet: P4946962
Cust: W00505
Schd: 4638

P.O. #:
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

TUESDAY 03/11/14 - 03/11/14

Printed on: 02/19/14

	Sample	Collect	Received	Tested	Complete
Date					
Time					
By					
Temp.	°C	°C		°C	App.

Temp	Site	Initials	Iced?
°C			YES NO
°C			YES NO

X: -75.28949 Y: 40.37565 PWSID: 1090046

	Sample Date/Time			ToT # Btls	BR	CL	PH
4946962-8 EPA DRINKING WATER - BRAVO'S BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-9 EPA DRINKING WATER - PRA BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-10 EPA DRINKING WATER - LANDIS BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-11 EPA DRINKING WATER - RESERVOIR HIGH BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-12 EPA DRINKING WATER - RESERVOIR LOW BAC SPC FORM	COLI COLI	E COLI CO	SPC				

Dept.	Relinquished By	Time	Date

Dept.	Relinquished To	Time	Date

#_____ Ascorbic/HCl Vials #_____ HCl Vials
#_____ Na2-S2-O3 _____
#_____ Na OH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2-SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved #_____ HCl pH _____

Hours of Operation:
M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: -

Health Dept: BUCKS CO DOY

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PickSheet: P4946962
Cust: W00505
Schd: 4638

P.O. #:
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

TUESDAY 03/11/14 - 03/11/14

Printed on: 02/19/14

	Sample	Collect	Received	Tested	Complete
Date					
Time					
By					
Temp.	°C	°C		°C	App.

Temp	Site	Initials	Iced?
°C			YES NO
°C			YES NO

X: -75.28949 Y: 40.37565 PWSID: 1090046

		Sample Date/Time			ToT # Btls	BR	CL	PH
4946962-1	EPA DRINKING WATER - GIANT BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-2	EPA DRINKING WATER - THE FRESHMAN CENTER BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-3	EPA DRINKING WATER - THE PERK BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-4	EPA DRINKING WATER - PRODESCO BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-5	EPA DRINKING WATER - ORBIT BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-6	EPA DRINKING WATER - M & S OIL BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4946962-7	EPA DRINKING WATER - TRI-VALLEY REAL ESTATE BAC SPC FORM	COLI COLI	E COLI CO	SPC				

Dept.	Relinquished By	Time	Date

Dept.	Relinquished To	Time	Date

#_____ Ascorbic/HCl Vials #_____ HCl Vials
#_____ Na2-S2-O3 _____
#_____ Na OH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2-SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved #_____ HCl pH _____

Hours of Operation:
M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: -

Health Dept: BUCKS CO DOY

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

Account No:W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1592231 PAPERLESS
PWSID No: 1090046

L4946962-2 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-3 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-4 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-5 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-6 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-7 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-8 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-9 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-10 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-11 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

L4946962-12 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

QC Laboratories

Analytical Report

Printed 03/19/14 10:36

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1592231 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4946962-10	EPA DRINKING WATER - LANDIS	03/11/14 09:57am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		03/11/14 09:57AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4946962-11	EPA DRINKING WATER - RESERVOIR HIGH	03/11/14 01:05pm NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
FIELD SERVICES							
Chlorine, residual	1.01	0.02	mg/l	SM 4500CL G	1		03/11/14 01:05PM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4946962-12	EPA DRINKING WATER - RESERVOIR LOW	03/11/14 01:10pm NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	50	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		03/11/14 01:10PM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample Comments:

L4946962-1 :
The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PP 78236 Serial Number: 3437487

QC Laboratories

Analytical Report

Printed 03/19/14 10:36

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1592231 PAPERLESS
PWSID No: 1090046

Sample ID L4946962-8 **Sample Description** EPA DRINKING WATER - BRAVO'S
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 03/11/14 10:10am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
FIELD SERVICES							
Chlorine, residual	0.92	0.02	mg/l	SM 4500CL G	1		03/11/14 10:10AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4946962-9 **Sample Description** EPA DRINKING WATER - PRA
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 03/11/14 01:37pm NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	9	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
FIELD SERVICES							
Chlorine, residual	0.55	0.02	mg/l	SM 4500CL G	1		03/11/14 01:37PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4946962-10 **Sample Description** EPA DRINKING WATER - LANDIS
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 03/11/14 09:57am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS

PP 78236

Serial Number: 3437487

QC Laboratories

Analytical Report

Printed 03/19/14 10:36

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1592231 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4946962-5	EPA DRINKING WATER - ORBIT	03/11/14 11:20am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.62	0.02	mg/l	SM 4500CL G	1		03/11/14 11:20AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4946962-6	EPA DRINKING WATER - M & S OIL	03/11/14 10:52am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
FIELD SERVICES							
Chlorine, residual	0.93	0.02	mg/l	SM 4500CL G	1		03/11/14 10:52AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4946962-7	EPA DRINKING WATER - TRI-VALLEY REAL ESTATE	03/11/14 10:22am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	6	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
FIELD SERVICES							
Chlorine, residual	1.04	0.02	mg/l	SM 4500CL G	1		03/11/14 10:22AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

PP 78236 Serial Number: 3437487

QC Laboratories

Analytical Report

Printed 03/19/14 10:36

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1592231 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4946962-3 **Sample Description** EPA DRINKING WATER - THE PERK **Samp. Date/Time/Temp** 03/11/14 08:40am NA C **Sampled by** Customer
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
FIELD SERVICES							
Chlorine, residual	1.10	0.02	mg/l	SM 4500CL G	1		03/11/14 08:40AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4946962-4 **Sample Description** EPA DRINKING WATER - PRODESCO **Samp. Date/Time/Temp** 03/11/14 10:35am NA C **Sampled by** Customer
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
FIELD SERVICES							
Chlorine, residual	0.88	0.02	mg/l	SM 4500CL G	1		03/11/14 10:35AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4946962-5 **Sample Description** EPA DRINKING WATER - ORBIT **Samp. Date/Time/Temp** 03/11/14 11:20am NA C **Sampled by** Customer
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:45PM BHS

PP 78236 Serial Number: 3437487

QC Laboratories

Analytical Report

Printed 03/19/14 10:36 QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1592231 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4946962-1 EPA DRINKING WATER - GIANT 03/11/14 12:48pm NA C Customer
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		03/11/14 12:48PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4946962-2 EPA DRINKING WATER - THE FRESHMAN CENTER 03/11/14 12:34pm NA C Customer
Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	93	2	col/ml	SM 9215B	1		03/11/14 03:45PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		03/11/14 04:46PM BHS
FIELD SERVICES							
Chlorine, residual	0.70	0.02	mg/l	SM 4500CL G	1		03/11/14 12:34PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236 Serial Number: 3437487

QC LABORATORIES

Analytical Report

Serialized: 03/19/2014 10:36am QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4946962

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L0675758

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH cr 4 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
4-2 Temp control OL ID# ICE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 EP102 Vessel 2	3-11-14	9:24	X		DW	1				1					Arsenic	N/A
well 10 EP102 Raw	↓	9:29	X		↓	3			3						VOC's	N/A
well 10 EP102 Finished	↓	9:34	X		↓	3			3						VOC's	1.11
well 4 EP101 Finished	↓	12:08	X		↓	1				1					Radium 226+228	.91
well 11 EP103 Finished	↓	8:50	X		↓	1				1					Radium 226+228	1.03

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	3-11-14	13:45	1 [signature]	3-11-14	1355
2 [signature]	3-11-14	1525	2 [signature]	3/11/14	1525
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

FINAL REPORT

For example to aid completion, see reverse side.

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L2675758

Client/Acct. No. PRA-WQ0505
Address 150 Ridge Rd
City/State/Zip Sellersville, PA. 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH <2 ½ pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
42 Temp control OK ID# [illegible] (LED)

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	3-11-14	13:05	X		DW	1								1	BACT/SPC	1.01
3178716-12 Reservoir Low		13:10				1								1	BACT/SPC	.99
well 11 Raw EP103		8:55								1					Arsenic	N/A
well 11 Blended EP103		8:55														
well 11 EP103 Vessel 1		8:57														
well 11 EP103 Vessel 2		8:57														
well 11 EP103 Vessel 3		9:05														
well 10 EP102 Raw		9:22														
well 10 EP102 Finished		9:22														
well 10 EP102 Vessel 1		9:29														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig: Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	3-11-14	13:45	1 [illegible]	3/1-14	1355
RELINQUISHED BY 2 [illegible]	3-11-14	1525	RECEIVED BY [illegible] Doherty	3/11/14	1525
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 03/31/14 11:22

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1594387 PAPERLESS
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-9	WELL 10 EP102 VESSEL 2	03/11/14 09:24am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 10:05PM JW

PP 78236

Serial Number: 3464365

QC Laboratories

Analytical Report

Printed 03/31/14 11:22

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1594387 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-4	WELL 11 EP103 VESSEL 2	03/11/14 08:57am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00520	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:44PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-5	WELL 11 EP103 VESSEL 3	03/11/14 09:05am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00560	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:47PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-6	WELL 10 EP102 RAW	03/11/14 09:22am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0126	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:49PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-7	WELL 10 EP102 FINISHED	03/11/14 09:22am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00700	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:58PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-8	WELL 10 EP102 VESSEL 1	03/11/14 09:29am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 10:01PM JW

PP 78236 Serial Number: 3464365

QC Laboratories

Analytical Report

Printed 03/31/14 11:22 QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1594387 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-1	WELL 11 RAW EP103	03/11/14 08:55am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0166	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:10PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-2	WELL 11 BLENDED EP103	03/11/14 08:55am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00930	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:39PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L2675758-3	WELL 11 EP103 VESSEL 1	03/11/14 08:57am NA C	Customer

Received Date/Time/Temp 03/11/14 03:25pm 4.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00490	0.00200	mg/l	EPA 200.8 Rev 5.4	1		03/17/14 09:41PM JW

PP 78236 Serial Number: 3464365

QC LABORATORIES

Analytical Report

Serialized: 03/31/2014 11:22am QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L2675758

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA. 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
28 Temp control DC ID# ICED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	VOTS	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir - High	2-11-14	10:44	X		DW	1								1	BACT / SPC	1.02
3178716-12 Reservoir - Low		10:46												1	BACT / SPC	1.02
well 11 - EP103 Raw		8:09								1					Arsenic	N/A
well 11 - EP103 Blended		8:09														
well 11 - EP103 Vessel 1		8:16														
well 11 - EP103 Vessel 2		8:10														
well 11 - EP103 Vessel 3		8:10														
well 10 - EP102 Raw		8:31														
well 10 - EP102 Finished		8:31														
well 10 - EP102 Vessel 1		8:38														

FAX RESULTS TO 215-622-1228

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	2-11-14	12:54	1 [signature]	2-11-14	1400
2 [signature]	2-11-14	1525	2 [signature]	2/11/14	1525
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

QA OFFICE

For example to aid completion, see reverse side.

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 3

Client/Acct. No. PRA - W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA. 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
28 Temp control QC ID# 1LED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	UnPres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-1 Giant	2-11-14	11:43	X		DW	1								1	BACT / SPC	.83
3178716-2 Freshman Center		11:56														.74
3178716-3 The Perk		8:00														.96
3178716-4 Prodesco		9:31														.90
3178716-5 Orbit		9:51														.65
3178716-6 M+S OIL		11:09														.75
3178716-7 Tri Valley Real Estate		9:17														.89
3178716-8 Bravo's		11:26														.92
3178716-9 PRA		12:51														.51
3178716-10 Landis		9:00														1.07

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	2-11-14	12:54	1 [signature]	2-11-14	1400
2 [signature]	2-11-14	1525	2 [signature]	2/11/14	1525
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

FINAL REPORT

For example to aid completion, see reverse side.

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PickSheet: P4905023
Cust: W00505
Schd: 4638

P.O. #:
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

TUESDAY 02/11/14 - 02/11/14

Printed on: 01/22/14

	Sample	Collect	Received	Tested	Complete
Date					
Time					
By					
Temp.	°C	°C		°C	App.

Temp	Site	Initials	Iced?
°C			YES NO
°C			YES NO

X: -75.28949 Y: 40.37565 PWSID: 1090046

	Sample Date/Time			ToT # Btls	BR	CL	PH
4905023-8 EPA DRINKING WATER - BRAVO'S BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-9 EPA DRINKING WATER - PRA BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-10 EPA DRINKING WATER - LANDIS BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-11 EPA DRINKING WATER - RESERVOIR HIGH BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-12 EPA DRINKING WATER - RESERVOIR LOW BAC SPC FORM	COLI COLI	E COLI CO	SPC				

Dept.	Relinquished By	Time	Date

Dept.	Relinquished To	Time	Date

#_____ Ascorbic/HCl Vials #_____ HCl Vials
#_____ Na2-S2-O3 _____
#_____ Na OH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2-SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved #_____ HCl pH _____

Hours of Operation:
M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: -

Health Dept: BUCKS CO DOY

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PickSheet: P4905023
Cust: W00505
Schd: 4638

P.O. #:
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

TUESDAY 02/11/14 - 02/11/14

Printed on: 01/22/14

	Sample	Collect	Received	Tested	Complete
Date					
Time					
By					
Temp.	°C	°C		°C	App.

Temp	Site	Initials	Iced?
°C			YES NO
°C			YES NO

X: -75.28949 Y: 40.37565 PWSID: 1090046

		Sample Date/Time			ToT # Btls	BR	CL	PH
4905023-1	EPA DRINKING WATER - GIANT BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-2	EPA DRINKING WATER - THE FRESHMAN CENTER BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-3	EPA DRINKING WATER - THE PERK BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-4	EPA DRINKING WATER - PRODESCO BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-5	EPA DRINKING WATER - ORBIT BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-6	EPA DRINKING WATER - M & S OIL BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4905023-7	EPA DRINKING WATER - TRI-VALLEY REAL ESTATE BAC SPC FORM	COLI COLI	E COLI CO	SPC				

Dept.	Relinquished By	Time	Date

Dept.	Relinquished To	Time	Date

#_____ Ascorbic/HCl Vials #_____ HCl Vials
#_____ Na2-S2-O3 _____
#_____ Na OH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2-SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved #_____ HCl pH _____

Hours of Operation:
M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: -

Health Dept: BUCKS CO DOY

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
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ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

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- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 02/19/14 13:24

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1585435 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4905023-10 EPA DRINKING WATER - LANDIS 02/11/14 09:00am NA C Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	1.07	0.02	mg/l	SM 4500CL G	1		02/11/14 09:00AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4905023-11 EPA DRINKING WATER - RESERVOIR HIGH 02/11/14 10:44am NA C Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	1.02	0.02	mg/l	SM 4500CL G	1		02/11/14 10:44AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4905023-12 EPA DRINKING WATER - RESERVOIR LOW 02/11/14 10:46am NA C Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	31	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 06:00PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 06:00PM ARD
FIELD SERVICES							
Chlorine, residual	1.02	0.02	mg/l	SM 4500CL G	1		02/11/14 10:46AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PP 78236 Serial Number: 3372706

QC Laboratories

Analytical Report

Printed 02/19/14 13:24

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1585435 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4905023-8 **Sample Description** EPA DRINKING WATER - BRAVO'S **Samp. Date/Time/Temp** 02/11/14 11:26am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.92	0.02	mg/l	SM 4500CL G	1		02/11/14 11:26AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905023-9 **Sample Description** EPA DRINKING WATER - PRA **Samp. Date/Time/Temp** 02/11/14 12:51pm NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	3	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 06:00PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 06:00PM ARD
FIELD SERVICES							
Chlorine, residual	0.51	0.02	mg/l	SM 4500CL G	1		02/11/14 12:51PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905023-10 **Sample Description** EPA DRINKING WATER - LANDIS **Samp. Date/Time/Temp** 02/11/14 09:00am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD

PP 78236 Serial Number: 3372706

QC Laboratories

Analytical Report

Printed 02/19/14 13:24

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1585435 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4905023-5	EPA DRINKING WATER - ORBIT	02/11/14 09:51am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.65	0.02	mg/l	SM 4500CL G	1		02/11/14 09:51AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4905023-6	EPA DRINKING WATER - M & S OIL	02/11/14 11:09am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.75	0.02	mg/l	SM 4500CL G	1		02/11/14 11:09AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4905023-7	EPA DRINKING WATER - TRI-VALLEY REAL ESTATE	02/11/14 09:17am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	4	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.89	0.02	mg/l	SM 4500CL G	1		02/11/14 09:17AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

PP 78236 Serial Number: 3372706

QC Laboratories

Analytical Report

Printed 02/19/14 13:24

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1585435 PAPERLESS
PWSID No: 1090046

Sample ID L4905023-3 **Sample Description** EPA DRINKING WATER - THE PERK
Samp. Date/Time/Temp 02/11/14 08:00am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.96	0.02	mg/l	SM 4500CL G	1		02/11/14 08:00AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905023-4 **Sample Description** EPA DRINKING WATER - PRODESCO
Samp. Date/Time/Temp 02/11/14 09:31am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.90	0.02	mg/l	SM 4500CL G	1		02/11/14 09:31AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905023-5 **Sample Description** EPA DRINKING WATER - ORBIT
Samp. Date/Time/Temp 02/11/14 09:51am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 06:00PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 06:00PM ARD

PP 78236 Serial Number: 3372706

QC Laboratories

Analytical Report

Printed 02/19/14 13:24

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1585435 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4905023-1 **Sample Description** EPA DRINKING WATER - GIANT **Samp. Date/Time/Temp** 02/11/14 11:43am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.83	0.02	mg/l	SM 4500CL G	1		02/11/14 11:43AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905023-2 **Sample Description** EPA DRINKING WATER - THE FRESHMAN CENTER **Samp. Date/Time/Temp** 02/11/14 11:56am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	35	2	col/ml	SM 9215B	1		02/11/14 03:50PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		02/11/14 05:59PM ARD
FIELD SERVICES							
Chlorine, residual	0.74	0.02	mg/l	SM 4500CL G	1		02/11/14 11:56AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236 Serial Number: 3372706

QC LABORATORIES

Analytical Report

Serialized: 02/19/2014 01:24pm QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4905023

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L49 0524

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY: 4-NH4Cl-250mL

12 Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
28 Temp control Q ID# JL 1162

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OTHER

LABORATORY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	VOAs	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10-EP102 Vessel 2	2-11-14	8:34	X		DW	1				1					~~AOC's~~	N/A
~~241 Cedarview Dr. Site ID 700~~		12:11				4			3					1	TTHM's / HAA5	.41
817 W. Market St. Site ID 701		11:04				4			3					1		.75
150 Ridge Rd. Site ID 702		12:43				4			3					1		.51
Reservoir Site ID 703		10:40				4			3					1		1.02

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	2-11-14	12:54	1 [signature]	2-11-14	1400
2 [signature]	2-11-14	1525	2 [signature]	2/11/14	1525
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 02/28/14 15:00

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1587818 PAPERLESS
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4905024-4	RESERVOIR SITE ID 703	02/11/14 10:40am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
Bromodichloromethane	3.22	1.00	ug/l	EPA 524.2	1		02/21/14 05:37PM ARG
Bromoform	ND	1.00	ug/l	EPA 524.2	1		02/21/14 05:37PM ARG
Chloroform	1.97	1.00	ug/l	EPA 524.2	1		02/21/14 05:37PM ARG
Dibromochloromethane	2.73	1.00	ug/l	EPA 524.2	1		02/21/14 05:37PM ARG
Total THM (Total Trihalomethanes)	7.92	1.00	ug/l	EPA 524.2	1		02/21/14 05:37PM ARG
GAS CHROMATOGRAPHY							
Dibromoacetic acid	1.49	1.00	ug/l	EPA 552.2	1		02/20/14 11:13PM AJM
Dichloroacetic acid	1.34	1.00	ug/l	EPA 552.2	1		02/20/14 11:13PM AJM
Monobromoacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 11:13PM AJM
Monochloroacetic acid	ND	2.00	ug/l	EPA 552.2	1		02/20/14 11:13PM AJM
HAA-5, total	2.83	2.00	ug/l	EPA 552.2	1		02/20/14 11:13PM AJM
Trichloroacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 11:13PM AJM

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236

Serial Number: 3395645

QC Laboratories

Analytical Report

Printed 02/28/14 15:00

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1587818 PAPERLESS
PWSID No: 1090046

Sample ID L4905024-2 **Sample Description** 817 W. MARKET ST, SITE ID 701
Samp. Date/Time/Temp 02/11/14 11:04am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY							
Dibromoacetic acid	1.45	1.00	ug/l	EPA 552.2	1		02/20/14 10:16PM AJM
Dichloroacetic acid	1.23	1.00	ug/l	EPA 552.2	1		02/20/14 10:16PM AJM
Monobromoacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 10:16PM AJM
Monochloroacetic acid	ND	2.00	ug/l	EPA 552.2	1		02/20/14 10:16PM AJM
HAA-5, total	2.68	2.00	ug/l	EPA 552.2	1		02/20/14 10:16PM AJM
Trichloroacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 10:16PM AJM

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905024-3 **Sample Description** 150 RIDGE RD, SITE ID 702
Samp. Date/Time/Temp 02/11/14 12:43pm NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
Bromodichloromethane	6.21	1.00	ug/l	EPA 524.2	1		02/21/14 04:58PM ARG
Bromoform	ND	1.00	ug/l	EPA 524.2	1		02/21/14 04:58PM ARG
Chloroform	5.09	1.00	ug/l	EPA 524.2	1		02/21/14 04:58PM ARG
Dibromochloromethane	4.31	1.00	ug/l	EPA 524.2	1		02/21/14 04:58PM ARG
Total THM (Total Trihalomethanes)	15.6	1.00	ug/l	EPA 524.2	1		02/21/14 04:58PM ARG
GAS CHROMATOGRAPHY							
Dibromoacetic acid	1.73	1.00	ug/l	EPA 552.2	1		02/20/14 10:45PM AJM
Dichloroacetic acid	2.25	1.00	ug/l	EPA 552.2	1		02/20/14 10:45PM AJM
Monobromoacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 10:45PM AJM
Monochloroacetic acid	ND	2.00	ug/l	EPA 552.2	1		02/20/14 10:45PM AJM
HAA-5, total	5.6	2.00	ug/l	EPA 552.2	1		02/20/14 10:45PM AJM
Trichloroacetic acid	1.62	1.00	ug/l	EPA 552.2	1		02/20/14 10:45PM AJM

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236 Serial Number: 3395645

QC Laboratories

Analytical Report

Printed 02/28/14 15:00

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1587818 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4905024-1 **Sample Description** 241 CEDARVIEW DR, SITE ID 700 **Samp. Date/Time/Temp** 02/11/14 12:10pm NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
Bromodichloromethane	3.98	1.00	ug/l	EPA 524.2	1		02/21/14 03:40PM ARG
Bromoform	ND	1.00	ug/l	EPA 524.2	1		02/21/14 03:40PM ARG
Chloroform	3.49	1.00	ug/l	EPA 524.2	1		02/21/14 03:40PM ARG
Dibromochloromethane	3.26	1.00	ug/l	EPA 524.2	1		02/21/14 03:40PM ARG
Total THM (Total Trihalomethanes)	10.7	1.00	ug/l	EPA 524.2	1		02/21/14 03:40PM ARG
GAS CHROMATOGRAPHY							
Dibromoacetic acid	1.34	1.00	ug/l	EPA 552.2	1		02/20/14 09:48PM AJM
Dichloroacetic acid	1.42	1.00	ug/l	EPA 552.2	1		02/20/14 09:48PM AJM
Monobromoacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 09:48PM AJM
Monochloroacetic acid	ND	2.00	ug/l	EPA 552.2	1		02/20/14 09:48PM AJM
HAA-5, total	2.76	2.00	ug/l	EPA 552.2	1		02/20/14 09:48PM AJM
Trichloroacetic acid	ND	1.00	ug/l	EPA 552.2	1		02/20/14 09:48PM AJM

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4905024-2 **Sample Description** 817 W. MARKET ST, SITE ID 701 **Samp. Date/Time/Temp** 02/11/14 11:04am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
Bromodichloromethane	3.13	1.00	ug/l	EPA 524.2	1		02/21/14 04:19PM ARG
Bromoform	ND	1.00	ug/l	EPA 524.2	1		02/21/14 04:19PM ARG
Chloroform	1.85	1.00	ug/l	EPA 524.2	1		02/21/14 04:19PM ARG
Dibromochloromethane	2.59	1.00	ug/l	EPA 524.2	1		02/21/14 04:19PM ARG
Total THM (Total Trihalomethanes)	7.57	1.00	ug/l	EPA 524.2	1		02/21/14 04:19PM ARG

PP 78236 Serial Number: 3395645

QC LABORATORIES

Analytical Report

Serialized: 02/28/2014 03:00pm QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4905024

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Client/Acct. No.: PRA-W00505
Address: 150 Ridge Rd.
City/State/Zip: Sellersville, PA 18960
Phone/Fax: 215-622-1228
Client Contact: Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH 2 1/pkgt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
28 Temp control ☑ ID# 1160

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 - EP102 Vessel 2	2-11-14	8:34	X		DW	1				1					Arsenic	N/A
241 Cedarview Dr. Site ID 700	↓	12:11	↓	↓	↓	4			3					1	TTHMs / HAA5	.41
817 W. Market St. Site ID 701	↓	11:04	↓	↓	↓	4			3					1	↓ ↓	.75
150 Ridge Rd. Site ID 702	↓	12:43	↓	↓	↓	4			3					1	↓ ↓	.51
Reservoir Site ID 703	↓	10:40	↓	↓	↓	4			3					1	↓ ↓	1.02

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	2-11-14	12:54	1 [signature]	2-11-14	1400
2 [signature]	2-11-14	1525	2 [signature]	2/11/14	1525
3	DATE	TIME	3	DATE	TIME
4	DATE	TIME	4	DATE	TIME
5	DATE	TIME	5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

QA OFFICE

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4933955

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH <2 2pt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
28 HCl pH
___ Temp control OK ID# ICED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir - High	2-11-14	10:44	X		DW	1								1	Bact / SPC	1.02
3178716-12 Reservoir - Low		10:46												1	Bact / SPC	1.02
well 11 - EP103 Raw		8:09								1					Arsenic	N/A
well 11 - EP103 Blended		8:09														
well 11 - EP103 Vessel 1		8:16														
well 11 - EP103 Vessel 2		8:10														
well 11 - EP103 Vessel 3		8:10														
well 10 - EP102 Raw		8:31														
well 10 - EP102 Finished		8:31														
well 10 - EP102 Vessel 1		8:38														

SAMPLED BY: (Name/Company)

Verbal/fax data due: / /
Hardcopy due: / /

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	2-11-14	12:54	1 [signature]	2-11-14	1400
2 [signature]	2-11-14	1525	2 [signature]	2/11/14	1525
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 02/27/14 16:05

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1587488 PAPERLESS
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4938955-8	WELL 10 EP 102 VESSEL 1	02/11/14 08:38am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:59PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4938955-9	WELL 10 EP 102 VESSEL 2	02/11/14 08:34am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/15/14 12:01AM JW

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236

Serial Number: 3393406

QC Laboratories

Analytical Report

Printed 02/27/14 16:05

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1587488 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4938955-4	WELL 11 EP 103 VESSEL 2	02/11/14 08:10am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00520	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:32PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4938955-5	WELL 11 EP 103 VESSEL 3	02/11/14 08:10am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00550	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:44PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4938955-6	WELL 10 EP 102 RAW	02/11/14 08:31am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0126	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:47PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4938955-7	WELL 10 EP 102 FINISHED	02/11/14 08:31am NA C	Customer

Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00670	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:50PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

PP 78236 Serial Number: 3393406

QC Laboratories

Analytical Report

Printed 02/27/14 16:05

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1587488 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4938955-1 **Sample Description** WELL 11 EP 103 RAW **Samp. Date/Time/Temp** 02/11/14 08:09am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0154	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:21PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4938955-2 **Sample Description** WELL 11 EP 103 BLENDED **Samp. Date/Time/Temp** 02/11/14 08:09am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0100	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:27PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4938955-3 **Sample Description** WELL 11 EP 103 VESSEL 1 **Samp. Date/Time/Temp** 02/11/14 08:16am NA C **Sampled by** Customer
Received Date/Time/Temp 02/11/14 03:25pm 2.8 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00490	0.00200	mg/l	EPA 200.8 Rev 5.4	1		02/14/14 11:30PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236 Serial Number: 3393406

QC LABORATORIES

Analytical Report

Serialized: 02/27/2014 04:05pm QC36

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4938955

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Client/Acct. No. PRA - W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA. 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
#22 Temp control OL ID# ICE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	1-14-14	10:24	X		DW	1								1	Bact / SPC	1.01
3178716-12 Reservoir Low		10:30												1	" "	.99
well 11 - EP103 Raw		8:31								1					Arsenic	N/A
well 11 - EP103 Blended		8:31														
well 11 - EP103 Vessel 1		8:36														
well 11 - EP103 Vessel 2		8:40														
well 11 - EP103 Vessel 3		8:36														
well 10 - EP102 Raw		8:51														
well 10 - EP102 Finished		8:51														
well 10 - EP102 Vessel 1		8:58														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	1-14-14	12:05	1 John Wagner	1/14/14	1340
RELINQUISHED BY 2 John Wagner	1-14-14	1445	RECEIVED BY 2 Ann Dougherty	1/14/14	1445
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

QA OFFICE

For example to aid completion, see reverse side.

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 3

Client/Acct. No. PRA - W005-05
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA. 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

Lab LIMS No:

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
___ HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
#22 Temp control OC ID# 1LED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON-SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	HNO_3	NaOH	ZnAc	Unpr.	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-1 Giant	1-14-14	11:17	X		DW	1							1	Bact / SPC	.81
3178716-2 Freshman Center		11:31				1							1		.84
3178716-3 The Perk		8:19				1							1		1.07
3178716-4 Prodesco		9:57				1							1		.90
3178716-5 Orbit		10:15				1							1		.62
3178716-6 M+S Oil		11:01				1							1		.95
3178716-7 Tri-Valley Real Estate		9:47				1							1		1.15
3178716-8 Bravo's		9:33				1							1		.94
3178716-9 PRA		12:02				1							1		.44
3178716-10 Landis		9:20				1							1		.99

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	1-14-14	12:05	1 John Johnson	1-14-14	1340
RELINQUISHED BY 2 John Johnson	1-14-14	1445	RECEIVED BY 2 Erin Dougherty	1/14/14	1445
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PickSheet: P4874582
Cust: W00505
Schd: 4638

P.O. #:
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

TUESDAY 01/14/14 - 01/14/14

Printed on: 12/26/13

	Sample	Collect	Received	Tested	Complete
Date					
Time					
By					
Temp.	°C	°C		°C	App.

Temp	Site	Initials	Iced?
22 °C	CL		YES NO
°C			YES NO

X: -75.28949 Y: 40.37565 PWSID: 1090046

	Sample Date/Time	ToT # Btls	BR	CL	PH
4874582-8 EPA DRINKING WATER - BRAVO'S BAC SPC FORM	COLI COLI / E COLI CO / SPC				
4874582-9 EPA DRINKING WATER - PRA BAC SPC FORM	COLI COLI / E COLI CO / SPC				
4874582-10 EPA DRINKING WATER - LANDIS BAC SPC FORM	COLI COLI / E COLI CO / SPC				
4874582-11 EPA DRINKING WATER - RESERVOIR HIGH BAC SPC FORM	COLI COLI / E COLI CO / SPC				
4874582-12 EPA DRINKING WATER - RESERVOIR LOW BAC SPC FORM	COLI COLI / E COLI CO / SPC				

Dept.	Relinquished By	Time	Date
	John Dinan	1145	1-14-14

Dept.	Relinquished To	Time	Date

#_____ Ascorbic/HCl Vials #_____ HCl Vials
#_____ Na2-S2-O3 _____
#_____ Na OH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2-SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved #_____ HCl pH _____

Hours of Operation:
M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: -

Health Dept: BUCKS CO DOY

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE, PA 18960
(215)257-3654
(267)639-0300 DAVE MOYER
(215)622-1228 STEFAN GREENA-ALT CONTACT

Route: 1 JOHN DINAN

PickSheet: P4874582
Cust: W00505
Schd: 4638

P.O. #:
Project Name: PERKASIE REGIONAL AUTHORITY
Start Date: 01/01/95 Stop Date:

TUESDAY 01/14/14 - 01/14/14

Printed on: 12/26/13

	Sample	Collect	Received	Tested	Complete
Date					
Time					
By					
Temp.	°C	°C		°C	App.

Temp	Site	Initials	Iced?
2-2 °C			YES NO
°C			YES NO

X: -75.28949 Y: 40.37565 PWSID: 1090046

	Sample Date/Time			ToT # Btls	BR	CL	PH
4874582-1 EPA DRINKING WATER - GIANT BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4874582-2 EPA DRINKING WATER - THE FRESHMAN CENTER BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4874582-3 EPA DRINKING WATER - THE PERK BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4874582-4 EPA DRINKING WATER - PRODESCO BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4874582-5 EPA DRINKING WATER - ORBIT BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4874582-6 EPA DRINKING WATER - M & S OIL BAC SPC FORM	COLI COLI	E COLI CO	SPC				
4874582-7 EPA DRINKING WATER - TRI-VALLEY REAL ESTATE BAC SPC FORM	COLI COLI	E COLI CO	SPC				

Dept.	Relinquished By	Time	Date
	John Dinan	1445	1-14-14

Dept.	Relinquished To	Time	Date

#_____ Ascorbic/HCl Vials #_____ HCl Vials
#_____ Na2-S2-O3 _____
#_____ Na OH/Zn acetate pH _____
#_____ HNO3 pH _____
#_____ H2-SO4 pH _____
#_____ NaOH pH _____
#_____ Unpreserved #_____ HCl pH _____

Hours of Operation:
M: 07:00-18:00 T: 07:00-18:00 W: 07:00-18:00 Th: 07:00-18:00 F: 07:00-18:00 St: - Sn: -

Health Dept: BUCKS CO DOY

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 01/17/14 16:07

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1579323 PAPERLESS
PWSID No: 1090046

Sample ID L4874582-10 **Sample Description** EPA DRINKING WATER - LANDIS
Samp. Date/Time/Temp 01/14/14 09:20am NA C **Sampled by** Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		01/14/14 09:20AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L4874582-11 **Sample Description** EPA DRINKING WATER - RESERVOIR HIGH
Samp. Date/Time/Temp 01/14/14 10:24am NA C **Sampled by** Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
FIELD SERVICES							
Chlorine, residual	1.01	0.02	mg/l	SM 4500CL G	1		01/14/14 10:24AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L4874582-12 **Sample Description** EPA DRINKING WATER - RESERVOIR LOW
Samp. Date/Time/Temp 01/14/14 10:30am NA C **Sampled by** Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
FIELD SERVICES							
Chlorine, residual	0.99	0.02	mg/l	SM 4500CL G	1		01/14/14 10:30AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

The Heterotrophic Plate Count by method SM 9215 replaces the older terminology of Standard Plate Count.

PP 78236 Serial Number: 3321985

QC Laboratories

Analytical Report

Printed 01/17/14 16:07

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1579323 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4874582-8 EPA DRINKING WATER - BRAVO'S 01/14/14 09:33am NA C Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
FIELD SERVICES							
Chlorine, residual	0.94	0.02	mg/l	SM 4500CL G	1		01/14/14 09:33AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4874582-9 EPA DRINKING WATER - PRA 01/14/14 12:02pm NA C Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
FIELD SERVICES							
Chlorine, residual	0.44	0.02	mg/l	SM 4500CL G	1		01/14/14 12:02PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4874582-10 EPA DRINKING WATER - LANDIS 01/14/14 09:20am NA C Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS

PP 78236 Serial Number: 3321985

QC Laboratories

Analytical Report

Printed 01/17/14 16:07

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1579323 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874582-5	EPA DRINKING WATER - ORBIT	01/14/14 10:15am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Chlorine, residual	0.62	0.02	mg/l	SM 4500CL G	1		01/14/14 10:15AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874582-6	EPA DRINKING WATER - M & S OIL	01/14/14 11:01am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
FIELD SERVICES							
Chlorine, residual	0.95	0.02	mg/l	SM 4500CL G	1		01/14/14 11:01AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874582-7	EPA DRINKING WATER - TRI-VALLEY REAL ESTATE	01/14/14 09:47am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	3	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
FIELD SERVICES							
Chlorine, residual	1.15	0.02	mg/l	SM 4500CL G	1		01/14/14 09:47AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

PP 78236 Serial Number: 3321985

QC Laboratories

Analytical Report

Printed 01/17/14 16:07

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1579323 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4874582-3 **Sample Description** EPA DRINKING WATER - THE PERK **Samp. Date/Time/Temp** 01/14/14 08:19am NA C **Sampled by** Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
FIELD SERVICES							
Chlorine, residual	1.07	0.02	mg/l	SM 4500CL G	1		01/14/14 08:19AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4874582-4 **Sample Description** EPA DRINKING WATER - PRODESCO **Samp. Date/Time/Temp** 01/14/14 09:57am NA C **Sampled by** Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
FIELD SERVICES							
Chlorine, residual	0.90	0.02	mg/l	SM 4500CL G	1		01/14/14 09:57AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4874582-5 **Sample Description** EPA DRINKING WATER - ORBIT **Samp. Date/Time/Temp** 01/14/14 10:15am NA C **Sampled by** Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS

QC Laboratories

Analytical Report

Printed 01/17/14 16:07

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1579323 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4874582-1 EPA DRINKING WATER - GIANT 01/14/14 11:17am NA C Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	<2	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:08PM SCS
FIELD SERVICES							
Chlorine, residual	0.81	0.02	mg/l	SM 4500CL G	1		01/14/14 11:17AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4874582-2 EPA DRINKING WATER - THE FRESHMAN CENTER 01/14/14 11:31am NA C Customer
Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
ENVIRONMENTAL MICROBIOLOGY							
Heterotrophic (Standard) Plate Count	80	2	col/ml	SM 9215B	1		01/14/14 04:18PM BHS
Coliform, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
E. Coli, Colilert P/A	NEG	1	col/100ml	SM 9223B	1		01/14/14 06:09PM SCS
FIELD SERVICES							
Chlorine, residual	0.84	0.02	mg/l	SM 4500CL G	1		01/14/14 11:31AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236 Serial Number: 3321985

QC LABORATORIES

Analytical Report

Serialized: 01/17/2014 04:07pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4874582

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

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QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L4874581

Client/Acct. No. PRA-W00505
Address 150 Ridge Rd.
City/State/Zip Sellersville, PA 18960
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH <2 4pt pl
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
22 Temp control QC ID# [illegible]

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10-EP102 Vessel 2	1-14-14	8:54	X		DW	1				1					Arsenic	N/A

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	1-14-14	12:05	1 [illegible]	1-14-14	1340
2 [illegible]	1-14-14	1445	2 Erin Dougherty	1/14/14	1445
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514

Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4874581

Client/Acct. No. PRA - W00505

Address 150 Ridge Rd.

City/State/Zip Sellersville, PA 18960

Phone/Fax 215-622-1228

Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH <2 4pt pk
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
22 Temp control OL ID# [illegible] ICE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	1-14-14	10:24	X		DW	1								1	Bact / SPC	1.01
~~3178716-12 Reservoir Low~~		10:30												1		.99
well 11 - EP103 Raw		8:31								1					Arsenic	N/A
well 11 - EP103 Blended		8:31														
well 11 - EP103 Vessel 1		8:36														
well 11 - EP103 Vessel 2		8:40														
well 11 - EP103 Vessel 3		8:36														
well 10 - EP102 Raw		8:51														
well 10 - EP102 Finished		8:51														
well 10 - EP102 Vessel 1		8:58														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___

Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:

Sig:

Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	1-14-14	12:05	1 [illegible]	1/14/14	1340
RELINQUISHED BY 2 [illegible]	1-14-14	1445	RECEIVED BY 2 [illegible] Dougherty	1/14/14	1445
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QC Laboratories

Analytical Report

Printed 01/23/14 16:41

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1580377 PAPERLESS
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-9	WELL 10 EP102 VESSEL 2	01/14/14 08:54am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:35PM JW

Sample Comments:

L4874581-8 :

To help you understand our new report format the following definition is helpful: MDL is the Method Detection Limit for an analysis. A result of "ND" indicates that the concentration of the element or compound that was tested for was either NOT DETECTED or is present at a level below the MDL.

A water supply should not exceed the following limits: Coliform- <1 col/100ml or NEG; Chloride-250 mg/l; Iron-0.30 mg/l; Manganese-0.05 mg/l; Nitrate-10.0 mg/l; Sulfate-250 mg/l; Total Dissolved Solids-500 mg/l; Detergents(MBAS)-0.05 mg/l; pH-6.5 to 8.5 units;

PP 78236

Serial Number: 3331989

QC Laboratories

Analytical Report

Printed 01/23/14 16:41

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1580377 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-4	WELL 11 EP103 VESSEL 2	01/14/14 08:40am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00470	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:14PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-5	WELL 11 EP103 VESSEL 3	01/14/14 08:36am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00490	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:17PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-6	WELL 10 EP102 RAW	01/14/14 08:51am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0116	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:20PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-7	WELL 10 EP102 FINISHED	01/14/14 08:51am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00580	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:25PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-8	WELL 10 EP102 VESSEL 1	01/14/14 08:58am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00270	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:28PM JW

PP 78236 Serial Number: 3331989

QC Laboratories

Analytical Report

Printed 01/23/14 16:41

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1580377 PAPERLESS
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-1	WELL 11 EP103 RAW	01/14/14 08:31am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0130	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:08PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-2	WELL 11 EP103 BLENDED	01/14/14 08:31am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00880	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:10PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4874581-3	WELL 11 EP103 VESSEL 1	01/14/14 08:36am NA C	Customer

Received Date/Time/Temp 01/14/14 02:45pm 2.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00430	0.00200	mg/l	EPA 200.8 Rev 5.4	1		01/17/14 11:12PM JW

PP 78236 Serial Number: 3331989

QC LABORATORIES

Analytical Report

Serialized: 01/23/2014 04:41pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4874581

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

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QC Laborat

1205 Industrial Blvd.
Southampton, PA 18966-0514

Client/Acct. No. HATFIELDTW
Address 3200 ADV
City/State/Zip. Colmar
Phone/Fax
Client Contact PETER DO

LAB USE ONLY

PROJECT NPDES

FIELD ID

Quarterly T
INFLUENT

Trip blank

SAMPLED BY: (Name/Company) JP/HTMA

SAMPLE CUSTODY EXCHANGES

RELINQUISHED BY SAMPLER 1
RELINQUISHED BY 2
RELINQUISHED BY 3
RELINQUISHED BY 4
RELINQUISHED BY 5

HATFIELD TOWNSHIP MUNICIPAL AUTHORITY
3200 ADVANCE LANE
COLMAR, PA 18915

Phone: (215)822-9300
FAX: (215)822-1869

QC LABORATORIES
LOGIN CHAIN OF CUSTODY REPORT (lnO1)
Sep 10 2013, 04:45 pm

Login No: L4562440 (Verbal)
Project: AC0092
Job ID:
PWSID:

Laboratory Sample Number	Sample ID	Sample Date and Time	Rcvd Date	H/C Due Date	Rush	Tier	Locator
L4562440-1	NPDES UPSTREAM GRAB	09/04/13 10:30 AM	09/10/13	09/17/13			
CU		Cl: pH:		Br:			
09/17/13 MISC	CHAIN OF CUSTODY RETURN						
09/17/13 WASTEWATER	TOTAL HARDNESS						
09/17/13 WASTEWATER	CALCIUM						
09/17/13 WASTEWATER	MAGNESIUM						
L4562440-2	FINAL EFFLUENT GRAB	09/04/13 10:30 AM	09/10/13	09/17/13			
CU		Cl: pH:		Br:			
09/17/13 WASTEWATER	TOTAL HARDNESS						
09/17/13 WASTEWATER	CALCIUM						
09/17/13 WASTEWATER	MAGNESIUM						
L4562440-3	DOWNSTREAM GRAB	09/04/13 10:30 AM	09/10/13	09/17/13			
CU		Cl: pH:		Br:			
09/17/13 WASTEWATER	TOTAL HARDNESS						
09/17/13 WASTEWATER	CALCIUM						
09/17/13 WASTEWATER	MAGNESIUM						

L4562440-1 A 0910
HATFIELD TOWNSHIP MUNICIPA 10
COLMAR PA 09/04/13
NPDES UPSTREAM GRAB

L4562440-2 A 0910
HATFIELD TOWNSHIP MUNICIPA 10
COLMAR PA 09/04/13
FINAL EFFLUENT GRAB

L4562440-3 A 0910
HATFIELD TOWNSHIP MUNICIPA 10
COLMAR PA 09/04/13
DOWNSTREAM GRAB

Signature:

Date:

Page 1

QC Laboratories

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page _____ of _____

Lab LIMS No: L4690607

Client/Acct. No. HATFIELD TWP M.A.
Address 3200 ADVANCE LANE
City/State/Zip COLMAR PA 18915
Phone/Fax
Client Contact PETER DORNEY

Bill to/Report to: (if different) SAME
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

- # ___ Ascorbic/HCl Vials
- # 3 HCl Vials TB
- # ___ $Na_2S_2O_3$
- # ___ Na OH/Zn acetate pH
- # 1 HNO_3 pH
- # 1 H_2SO_4 pH
- # 1 NaOH pH
- # 6 Unpreserved
- # ___ Hcl pH
- # 15 Temp control QC ID# ICE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT NPDES

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	VOAs	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
															Priority Pollutants	
Quarterly Truck Waste	9/14/13	0700		/	WW	15	1		6	1	1		6		CN	
															CN-WID	
															Boron	
															Bromide	
Trip blank						1			1						Hex Chrome	
															Al Fe (T) Mo	

SAMPLED BY: (Name/Company) JF/HTMA

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE. DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800. 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1	9/10/13	1325	1	9/10/13	1325
RELINQUISHED BY 1	9/10/13	1600	RECEIVED BY 2	9/10/13	1600
RELINQUISHED BY 2			RECEIVED BY 3		
RELINQUISHED BY 4			RECEIVED BY 4		
RELINQUISHED BY 5			RECEIVED BY 5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER_____

Custody Seal Number

COMMENTS:

Hazardous: yes / no

FINAL REPORT

For example to aid completion, see reverse side.

QC LABORATORIES

Analytical Report

Serialized: 10/17/2013 11:08am

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4793365

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

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QC Laboratories

Analytical Report

Printed 10/17/13 11:08

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1558973
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-1	WELL 11 EP 103 RAW	10/08/13 09:04am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.0136 mg/l	0.000500 mg/l*	10/10/13 09:40PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-2	WELL 11 EP 103 BLENDED	10/08/13 09:04am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00840 mg/l	0.000500 mg/l*	10/10/13 09:45PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-3	WELL 11 EP 103 VESSEL 1	10/08/13 09:06am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00430 mg/l	0.000500 mg/l*	10/10/13 09:50PM JW

PP 78236 Serial Number: 3145106

QC Laboratories

Analytical Report

Printed 10/17/13 11:08

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1558973
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-4	WELL 11 EP 103 VESSEL 2	10/08/13 09:06am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00420 mg/l	0.000500 mg/l*	10/10/13 09:55PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-5	WELL 11 EP 103 VESSEL 3	10/08/13 09:18am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00440 mg/l	0.000500 mg/l*	10/10/13 10:10PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-6	WELL 10 EP 102 RAW	10/08/13 09:42am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00930 mg/l	0.000500 mg/l*	10/10/13 10:16PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-7	WELL 10 EP 102 VESSEL 1	10/08/13 09:50am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.000700 B mg/l	0.000500 mg/l*	10/10/13 10:21PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4793365-8	WELL 10 EP 102 VESSEL 2	10/08/13 09:42am NA C	Customer

Received Date/Time/Temp 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	10/10/13 10:26PM JW

Sample Comments:

L4793365-7 :

QUALIFIERS: For values that are > than the MDL but < than the laboratory quantitation limit; a qualifier of "B" is used for Metals

PP 78236 Serial Number: 3145106

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1558973
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

parameters and a qualifier of "J" is used for Wet Chemistry parameters. For Organics parameters; "B" indicates when the compound is found in the blank as well as in the sample;"J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"(estimated) is when a compound exceeded the calibration range;"N" presumptive evidence of a compound; "D" is when a dilution was required.
cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

PP 78236 Serial Number: 3145106

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4793365

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
7 HNO_3 pH Lot 1 Replpt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
___ Temp control 3.7 ID# Pcad/BL2

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB ID	PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	UnPre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
B	317876-11 Reservoir High	10-8-13	11:53	X		DW	1								1	Bact/SPC	.94
	317876-12 Reservoir Low		11:55												1		.74
	well 11 EP103 Raw		9:04								1					Arsenic	N/A
	well 11 EP103 Blended		9:04														
	well 11 EP103 Vessel 1		9:06														
	well 11 EP103 Vessel 2		9:06														
	well 11 EP103 Vessel 3		9:18														
	well 10 EP102 Raw		9:42														
	well 10 EP102 Finished		9:42														
	well 10 EP102 Vessel		9:50														

→ PEL L4768393

SAMPLED BY: (Name/Company)
Verbal/fax data due:
Hardcopy due:
Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk
Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	10-8-13	13:20	1 Brett Lyons	10/8/13	14:30
2 Brett Lyons	10/8/13	15:35	2 [illegible]	10/8/13	1535
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L4793305

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate
1 HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
___ Temp control 3.7 ID# Iced IBL2

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 EP102 Vessel 2	10-8-13	9:42	X		DW	1			1					Arsenic	N/A
well 4 EP101 Finished	10-8-13	12:15	X		DW	3		3						VOC's	1.10
well 11 EP103 Finished	10-8-13	9:13	X		DW	3		3						VOC's	1.19

→ Rel L4768343

QA OFFICE

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	10-8-13	13:20	1 [signature]	10/8/13	14:30
RELINQUISHED BY 2 [signature]	DATE 10/8/13	TIME 15:35	RECEIVED BY 2 [signature]	DATE 10/8/13	TIME 1535
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

QC LABORATORIES

Analytical Report

Serialized: 10/23/2013 04:57pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4768393

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 10/23/13 16:57

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1560399
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp Sampled by
L4768393-1	EP 102 WELL 10 FINISHED **Received Date/Time/Temp** 10/08/13 03:35pm 3.7 C **Iced (Y/N):** Y	10/08/13 09:42am NA C Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00140 B mg/l	0.000500 mg/l*	10/10/13 09:35PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample Comments:

L4768393-1 :

QUALIFIERS: For values that are > than the MDL but < than the laboratory quantitation limit; a qualifier of "B" is used for Metals parameters and a qualifier of "J" is used for Wet Chemistry parameters. For Organics parameters; "B" indicates when the compound is found in the blank as well as in the sample;"J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"(estimated) is when a compound exceeded the calibration range;"N" presumptive evidence of a compound; "D" is when a dilution was required.
cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543

PP 78236 Serial Number: 3157975

QC Laboratories

Analytical Report

Printed 10/23/13 16:57

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1560399
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

PP 78236 Serial Number: 3157975

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4 768393

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:
___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH <2 1/pint
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
___ Temp control 3.2 ID# Cool/BLR

MATRIX CODES
DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZRAC	Unpres	BACT	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	10-8-13	11:53	X		DW	1								1	Bact / SPC	.94
3178716-12 Reservoir Low		11:55												1		.74
Well 11 EP103 Raw		9:04								1					Arsenic	N/A
Well 11 EP103 Blended		9:04														
Well 11 EP103 Vessel 1		9:06														
Well 11 EP103 Vessel 2		9:06														
Well 11 EP103 Vessel 3		9:18														
~~Well 10 EP102 Raw~~		9:42														
Well 10 EP102 Finished		9:42														
Well 10 EP102 Vessel 1		9:50														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800. 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	10-8-13	13:20	1 [signature]	10/8/13	14:30
RELINQUISHED BY 2 [signature]	10/8/13	15:35	RECEIVED BY 2 [signature]	10/8/13	1535
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 12/02/2013 02:39pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4829488

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

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QC Laboratories

Analytical Report

Printed 12/02/13 14:39

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1569297
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4829488-1	WELL 11 RAW	11/12/13 08:39am NA C	Customer

Received Date/Time/Temp 11/12/13 03:45pm 5.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
ARSENIC	0.0141	0.00200	mg/l	EPA 200.8 Rev 5.4	1		11/22/13 10:04PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4829488-2	WELL 11 BLENDED	11/12/13 08:39am NA C	Customer

Received Date/Time/Temp 11/12/13 03:45pm 5.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
ARSENIC	0.00870	0.00200	mg/l	EPA 200.8 Rev 5.4	1		11/22/13 10:24PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4829488-3	WELL 11 VESSEL 1	11/12/13 08:44am NA C	Customer

Received Date/Time/Temp 11/12/13 03:45pm 5.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
ARSENIC	0.00470	0.00200	mg/l	EPA 200.8 Rev 5.4	1		11/22/13 10:28PM JW

PP 78236 Serial Number: 3241429

QC Laboratories

Analytical Report

Printed 12/02/13 14:39

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1569297
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4829488-4	WELL 11 VESSEL 2	11/12/13 08:44am NA C	Customer

Received Date/Time/Temp 11/12/13 03:45pm 5.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
ARSENIC	0.00490	0.00200	mg/l	EPA 200.8 Rev 5.4	1		11/22/13 10:32PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4829488-5	WELL 11 VESSEL 3	11/12/13 08:48am NA C	Customer

Received Date/Time/Temp 11/12/13 03:45pm 5.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
ARSENIC	0.00510	0.00200	mg/l	EPA 200.8 Rev 5.4	1		11/22/13 10:36PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4829488-6	WELL 10 FINISHED	11/12/13 08:55am NA C	Customer

Received Date/Time/Temp 11/12/13 03:45pm 5.2 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
ARSENIC	0.00670	0.00200	mg/l	EPA 200.8 Rev 5.4	1		11/22/13 10:39PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

PP 78236 Serial Number: 3241429

QC Laboratories

Analytical Report

Printed 12/02/13 14:39

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1569297
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

General Notes:

Definitions: ND= The analyte tested was either not detected or the concentration was below the RL; Q=Qualifier
NEG=negative; POS=positive; COL=colonies; RL=laboratory reporting limit; L/A=laboratory accident; TNTC= Too numerous to count;
pres=presumptive; DF=Dilution Factor
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
Results for Tentatively Identified Compounds are estimated values only.
The test results meet all requirements of NELAC unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters were performed by
QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy and Food Microbiological tests
were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, FDA Reg. # : 2515238
ACL Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

PP 78236 Serial Number: 3241429

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4 829488

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (If different)

Sampling Site Address: (If different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
1 Na OH/Zn acetate pH
6 HNO_3 pH 2 1/2 pt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
52 Temp control QC ID# 1CE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpr	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir-High	11-12-13	11:35	X		DW	1								1	Bact / SPC	.96
~~3178716-12 Reservoir-Low~~		~~11:38~~												1	~~Bact / SPC~~	1.09
well 11 Raw		8:39													Arsenic	N/A
well 11 Blended		8:39								1						
well 11 Vessel 1		8:44								1						
well 11 Vessel 2		8:44								1						
well 11 Vessel 3		8:48								1						
well 10 Finished		8:55								1						
241 Cedarview - site ID 700		13:00				4			3					1	TTHM's / HAA5	.40
817 W. Market St. - site ID 701		12:00				4			3					1	TTHM's / HAA5	.80

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	11-12-13	13:30	1 [signature]	11/12/13	1425
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
2 [signature]	11-12-13	1545	2 [signature]	11/12/13	1545
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
3			3		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
4			4		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 12/24/2013 01:53pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4805725

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1574642
PWSID No: 1090046

Sample ID L4805725-1
Sample Description WELL 10 RAW
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 08:49am NA C
Sampled by Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
1,1,1,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1,1-Trichloroethane	2.70	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1,2,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1,2-Trichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1-Dichloroethane	0.610	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1-Dichloroethene	4.72	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,3-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,3-Trichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,4-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,4-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dibromo-3-chloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dibromoethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,3,5-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,3-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,3-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,4-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
2,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
2-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
4-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Benzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromochloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromodichloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromoform	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Carbon tetrachloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Chlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Chloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Chloroform	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG

PP 78236

Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1574642
PWSID No: 1090046

Sample ID L4805725-1 **Sample Description** WELL 10 RAW
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 08:49am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
Chloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
cis-1,2-Dichloroethene	29.6	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
cis-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Dibromochloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Dibromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Dichlorodifluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Ethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Hexachlorobutadiene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Isopropylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
m, p-Xylenes	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Methyl tert-butyl ether (MTBE)	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Methylene chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
n-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
n-Propylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Naphthalene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
o-Xylene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
p-Isopropyltoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
sec-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Styrene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
t-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Tetrachloroethene	2.13	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Toluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
trans-1,2-Dichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
trans-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Trichloroethene	38.8	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Trichlorofluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Vinyl chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG

Sample ID L4805725-2 **Sample Description** WELL 10 FINISHED
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 09:43am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
1,1,1,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1,1-Trichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1,2,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1,2-Trichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1-Dichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1-Dichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,3-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,3-Trichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,4-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,4-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dibromo-3-chloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG

PP 78236 Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1574642
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-2	WELL 10 FINISHED	12/11/13 09:43am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
1,2-Dibromoethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,3,5-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,3-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,3-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,4-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
2,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
2-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
4-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Benzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromochloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromodichloromethane	1.23	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromoform	2.92	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Carbon tetrachloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chloroform	0.740	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
cis-1,2-Dichloroethene	0.530	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
cis-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Dibromochloromethane	2.87	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Dibromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Dichlorodifluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Ethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Hexachlorobutadiene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Isopropylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
m, p-Xylenes	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Methyl tert-butyl ether (MTBE)	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Methylene chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
n-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
n-Propylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Naphthalene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
o-Xylene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
p-Isopropyltoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
sec-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Styrene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
t-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Tetrachloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Toluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
trans-1,2-Dichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
trans-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Trichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Trichlorofluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Vinyl chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG

PP 78236

Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1574642
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-2	WELL 10 FINISHED	12/11/13 09:43am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
*** STATE FORMS SENT ELECTRONICALLY ***							

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-3	WELL 11 EP103 RAW	12/11/13 08:49am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0173	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:17PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-4	WELL 11 EP103 BLENDED	12/11/13 08:49am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00890	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:29PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-5	WELL 11 EP103 VESSEL 1	12/11/13 09:03am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00450	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:33PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-6	WELL 11 EP103 VESSEL 2	12/11/13 08:56am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00450	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:40PM JW

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1574642
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-7	WELL 11 EP103 VESSEL 3	12/11/13 08:56am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00460	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:43PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-8	WELL 10 EP102 RAW	12/11/13 09:21am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00580	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:45PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-9	WELL 10 EP102 FINISHED	12/11/13 09:28am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00580	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:51PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-10	WELL 10 EP102 VESSEL 1	12/11/13 09:29am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:57PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-11	WELL 10 EP102 VESSEL 2	12/11/13 09:23am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 07:01PM JW

PP 78236 Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1574642
PWSID No: 1090046

Sample ID L4805725-12 **Sample Description** WELL 4 EP101 FINISHED
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 11:47am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00230	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 07:04PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4805725-13 **Sample Description** WELL 7 EP105 FINISHED
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 12:17pm NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00330	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 07:12PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236

Serial Number: 3284606

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 4

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

Lab LIMS No: L4805725

LAB USE ONLY:
#6 NO TB Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH cc 4pt pk
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
14 Temp control ID# 1 CED

MATRIX CODES
DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 11 EP103 Vessel 2	12-11-13	8:56	X		DW	1				1					Arsenic	N/A
well 11 EP103 Vessel 3		8:56														
well 10 EP102 Raw		9:21														
well 10 EP102 Finished		9:28														
well 10 EP102 Vessel 1		9:29														
well 10 EP102 Vessel 2		9:23														
well 10 Raw		9:26				3			3						VOC's	
well 10 Finished		9:43				3			3						VOC's	.97
Well 4 EP101 Finished		11:47	X		DW	1			1						Arsenic	N/A
well 7 EP105 Finished		12:17	X		DW	1			1						Arsenic	N/A

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	12-11-13	14:14	1 [illegible]	12-11-13	1414
2 [illegible]	12-11-13	1530	2 [illegible] Dougherty	12/11/13	1530
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 12/24/2013 01:53pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4805725

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1574642
PWSID No: 1090046

Sample ID L4805725-1
Sample Description WELL 10 RAW
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 08:49am NA C
Sampled by Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
1,1,1,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1,1-Trichloroethane	2.70	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1,2,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1,2-Trichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1-Dichloroethane	0.610	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1-Dichloroethene	4.72	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,1-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,3-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,3-Trichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,4-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2,4-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dibromo-3-chloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dibromoethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,3,5-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,3-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,3-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
1,4-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
2,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
2-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
4-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Benzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromochloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromodichloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromoform	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Bromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Carbon tetrachloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Chlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Chloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Chloroform	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG

PP 78236

Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1574642
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4805725-1 **Sample Description** WELL 10 RAW **Samp. Date/Time/Temp** 12/11/13 08:49am NA C **Sampled by** Customer
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
Chloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
cis-1,2-Dichloroethene	29.6	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
cis-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Dibromochloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Dibromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Dichlorodifluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Ethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Hexachlorobutadiene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Isopropylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
m, p-Xylenes	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Methyl tert-butyl ether (MTBE)	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Methylene chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
n-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
n-Propylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Naphthalene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
o-Xylene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
p-Isopropyltoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
sec-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Styrene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
t-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Tetrachloroethene	2.13	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Toluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
trans-1,2-Dichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
trans-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Trichloroethene	38.8	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Trichlorofluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG
Vinyl chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 03:36PM ARG

Sample ID L4805725-2 **Sample Description** WELL 10 FINISHED **Samp. Date/Time/Temp** 12/11/13 09:43am NA C **Sampled by** Customer
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES							
1,1,1,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1,1-Trichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1,2,2-Tetrachloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1,2-Trichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1-Dichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1-Dichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,1-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,3-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,3-Trichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,4-Trichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2,4-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dibromo-3-chloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG

PP 78236 Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1574642
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-2	WELL 10 FINISHED	12/11/13 09:43am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
1,2-Dibromoethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dichloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,3,5-Trimethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,3-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,3-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
1,4-Dichlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
2,2-Dichloropropane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
2-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
4-Chlorotoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Benzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromochloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromodichloromethane	1.23	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromoform	2.92	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Bromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Carbon tetrachloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chlorobenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chloroethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chloroform	0.740	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Chloromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
cis-1,2-Dichloroethene	0.530	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
cis-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Dibromochloromethane	2.87	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Dibromomethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Dichlorodifluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Ethylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Hexachlorobutadiene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Isopropylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
m, p-Xylenes	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Methyl tert-butyl ether (MTBE)	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Methylene chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
n-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
n-Propylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Naphthalene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
o-Xylene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
p-Isopropyltoluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
sec-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Styrene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
t-Butylbenzene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Tetrachloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Toluene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
trans-1,2-Dichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
trans-1,3-Dichloropropene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Trichloroethene	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Trichlorofluoromethane	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG
Vinyl chloride	ND	0.500	ug/l	EPA 524.2	1		12/12/13 04:14PM ARG

PP 78236

Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1574642
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-2	WELL 10 FINISHED	12/11/13 09:43am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued							
*** STATE FORMS SENT ELECTRONICALLY ***							

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-3	WELL 11 EP103 RAW	12/11/13 08:49am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.0173	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:17PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-4	WELL 11 EP103 BLENDED	12/11/13 08:49am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00890	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:29PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-5	WELL 11 EP103 VESSEL 1	12/11/13 09:03am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00450	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:33PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-6	WELL 11 EP103 VESSEL 2	12/11/13 08:56am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00450	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:40PM JW

PP 78236 Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1574642
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-7	WELL 11 EP103 VESSEL 3	12/11/13 08:56am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00460	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:43PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-8	WELL 10 EP102 RAW	12/11/13 09:21am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00580	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:45PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-9	WELL 10 EP102 FINISHED	12/11/13 09:28am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00580	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:51PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-10	WELL 10 EP102 VESSEL 1	12/11/13 09:29am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 06:57PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4805725-11	WELL 10 EP102 VESSEL 2	12/11/13 09:23am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 07:01PM JW

PP 78236 Serial Number: 3284606

QC Laboratories

Analytical Report

Printed 12/24/13 13:53

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1574642
PWSID No: 1090046

Sample ID L4805725-12 **Sample Description** WELL 4 EP101 FINISHED
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Samp. Date/Time/Temp 12/11/13 11:47am NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00230	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 07:04PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4805725-13 **Sample Description** WELL 7 EP105 FINISHED
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Samp. Date/Time/Temp 12/11/13 12:17pm NA C **Sampled by** Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Arsenic	0.00330	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/18/13 07:12PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

PP 78236

Serial Number: 3284606

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 4

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

Lab LIMS No: L4805725

LAB USE ONLY:

#6 NO TB Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
#8 HNO_3 pH cr 4pt pl
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
#14 Temp control ☒ ID# 1 CED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 11 EP103 Vessel 2	12-11-13	8:56	X		DW	1				1					Arsenic	N/A
well 11 EP103 Vessel 3		8:56														
well 10 EP102 Raw		9:21														
well 10 EP102 Finished		9:28														
well 10 EP102 Vessel 1		9:29														
well 10 EP102 Vessel 2		9:23														
well 10 Raw		9:26				3			3						VOC's	
well 10 Finished		9:43				3			3						VOC's	.97
Well 4 EP101 Finished		11:47	X		DW	1				1					Arsenic	N/A
well 7 EP105 Finished		12:17	X		DW	1				1					Arsenic	N/A

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	12-11-13	14:14	1 [signature]	12-11-13	1414
RELINQUISHED BY 2 [signature]	12-11-13	1530	RECEIVED BY 2 Ann Dougherty	12/11/13	1530
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 01/09/2014 01:11pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD

SELLERSVILLE,PA 18960

Regarding:

PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4648795

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 01/09/14 13:11

GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
150 RIDGE ROAD
SELLERSVILLE, PA 18960

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY
P.O. No:
Inv. No: 1577410
PWSID No: 1090046

Sample ID L4648795-1
Sample Description WELL 4 EP101
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y
Samp. Date/Time/Temp 12/11/13 11:49am NA C
Sampled by Customer

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Chloride	30.9	5.00	mg/l	EPA 300.0	1		12/12/13 06:24PM XJY
Fluoride	ND	0.200	mg/l	EPA 300.0	1		12/12/13 06:24PM XJY
Sulfate	41.4	5.00	mg/l	EPA 300.0	1		12/12/13 06:24PM XJY
Color	ND	5.00	units	SM 2120B	1		12/11/13 09:30PM AGM
Color at pH	7.47		units	SM 2120B	1		12/11/13 09:30PM AGM
Odor	ND			SM 2150B			12/11/13 09:30PM JAZ
Alkalinity	182	2.00	mg/l	SM 2320B	1		12/12/13 02:18PM P P
Saturation Index	0.561			SM 2330B	1		12/20/13 10:31AM
Total Dissolved Solids	300	20.0	mg/l	SM 2540C	1		12/12/13 11:30AM P P
pH, lab	7.93	0.0100	units	SM 4500H+B	1		12/12/13 02:18PM P P
Detergents, MBAS	ND	0.0500	mg/l	SM5540C(MW340)	1		12/11/13 07:30PM JAZ
METALS							
Calcium hardness	157	0.250	mg/l	CALC (200.7)	1		12/20/13 10:31AM
Magnesium hardness	61.8	0.412	mg/l	CALC (200.7)	1		12/20/13 10:31AM
Hardness, total	218	0.500	mg/l	CALC (200.7)	1		12/20/13 10:31AM
Calcium	62.7	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:31AM PG
Iron	ND	0.0250	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:31AM PG
Magnesium	15.0	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:31AM PG
Manganese	ND	0.0100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:31AM PG
Aluminum	ND	0.0200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:50PM JW
Copper	0.0728	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:50PM JW
Silver	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:50PM JW
Zinc	0.0114	0.00500	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:50PM JW

PP 78236

Serial Number: 3303305

QC Laboratories

Analytical Report

Printed 01/09/14 13:11

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1577410
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4648795-1	WELL 4 EP101	12/11/13 11:49am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
FIELD SERVICES							
Field Temperature Fahrenheit	52.6	0.5	Deg. F	SM 2550B			12/11/13 11:49AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4648795-2	WELL 10 EP102	12/11/13 09:39am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Chloride	79.3	5.00	mg/l	EPA 300.0	1		12/12/13 06:41PM XJY
Fluoride	ND	0.200	mg/l	EPA 300.0	1		12/12/13 06:41PM XJY
Sulfate	59.8	5.00	mg/l	EPA 300.0	1		12/12/13 06:41PM XJY
Color	ND	5.00	units	SM 2120B	1		12/11/13 09:30PM AGM
Color at pH	8.19		units	SM 2120B	1		12/11/13 09:30PM AGM
Odor	ND			SM 2150B			12/11/13 09:30PM JAZ
Alkalinity	190	2.00	mg/l	SM 2320B	1		12/12/13 02:25PM P P
Saturation Index	0.910			SM 2330B	1		12/20/13 10:44AM
Total Dissolved Solids	409	20.0	mg/l	SM 2540C	1		12/12/13 11:30AM P P
pH, lab	8.18	0.0100	units	SM 4500H+B	1		12/12/13 02:25PM P P
Detergents, MBAS	ND	0.0500	mg/l	SM5540C(MW340)	1		12/11/13 07:30PM JAZ
METALS							
Calcium hardness	201	0.250	mg/l	CALC (200.7)	1		12/20/13 10:44AM
Magnesium hardness	92.2	0.412	mg/l	CALC (200.7)	1		12/20/13 10:44AM
Hardness, total	293	0.500	mg/l	CALC (200.7)	1		12/20/13 10:44AM
Calcium	80.5	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:44AM PG
Iron	ND	0.0250	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:44AM PG
Magnesium	22.4	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:44AM PG
Manganese	ND	0.0100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:44AM PG
Aluminum	ND	0.0200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:54PM JW
Copper	0.00480	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:54PM JW
Silver	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:54PM JW
Zinc	0.0120	0.00500	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 07:54PM JW
FIELD SERVICES							
Field Temperature Fahrenheit	58.1	0.5	Deg. F	SM 2550B			12/11/13 09:39AM CU

*** STATE FORMS SENT ELECTRONICALLY ***

PP 78236 Serial Number: 3303305

QC Laboratories

Analytical Report

Printed 01/09/14 13:11

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1577410
PWSID No: 1090046

Sample ID L4648795-3 **Sample Description** WELL 11 EP103
Samp. Date/Time/Temp 12/11/13 08:55am NA C **Sampled by** Customer
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Chloride	38.5	5.00	mg/l	EPA 300.0	1		12/12/13 06:58PM XJY
Fluoride	ND	0.200	mg/l	EPA 300.0	1		12/12/13 06:58PM XJY
Sulfate	182	25.0	mg/l	EPA 300.0	5		12/13/13 05:15PM XJY
Color	ND	5.00	units	SM 2120B	1		12/11/13 09:30PM AGM
Color at pH	7.70		units	SM 2120B	1		12/11/13 09:30PM AGM
Odor	ND			SM 2150B			12/11/13 09:30PM JAZ
Alkalinity	166	2.00	mg/l	SM 2320B	1		12/12/13 02:44PM P P
Saturation Index	0.645			SM 2330B	1		12/20/13 10:46AM
Total Dissolved Solids	454	20.0	mg/l	SM 2540C	1		12/12/13 11:30AM P P
pH, lab	7.95	0.0100	units	SM 4500H+B	1		12/12/13 02:44PM P P
Detergents, MBAS	ND	0.0500	mg/l	SM5540C(MW340)	1		12/11/13 07:30PM JAZ
METALS							
Calcium hardness	217	0.250	mg/l	CALC (200.7)	1		12/20/13 10:46AM
Magnesium hardness	117	0.412	mg/l	CALC (200.7)	1		12/20/13 10:46AM
Hardness, total	335	0.500	mg/l	CALC (200.7)	1		12/20/13 10:46AM
Calcium	87.1	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:46AM PG
Iron	ND	0.0250	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:46AM PG
Magnesium	28.5	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:46AM PG
Manganese	0.0466	0.0100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:46AM PG
Aluminum	ND	0.0200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:03PM JW
Copper	0.0352	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:03PM JW
Silver	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:03PM JW
Zinc	0.0190	0.00500	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:03PM JW
FIELD SERVICES							
Field Temperature Fahrenheit	57.0	0.5	Deg. F	SM 2550B			12/11/13 08:55AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4648795-4 **Sample Description** WELL 7 EP105
Samp. Date/Time/Temp 12/11/13 12:19pm NA C **Sampled by** Customer
Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Chloride	19.6	5.00	mg/l	EPA 300.0	1		12/12/13 07:14PM XJY
Fluoride	0.205	0.200	mg/l	EPA 300.0	1		12/12/13 07:14PM XJY
Sulfate	103	25.0	mg/l	EPA 300.0	5		12/13/13 05:30PM XJY
Color	ND	5.00	units	SM 2120B	1		12/11/13 09:30PM AGM
Color at pH	7.56		units	SM 2120B	1		12/11/13 09:30PM AGM
Odor	ND			SM 2150B			12/11/13 09:30PM JAZ
Alkalinity	191	2.00	mg/l	SM 2320B	1		12/12/13 02:53PM P P

PP 78236 Serial Number: 3303305

QC Laboratories

Analytical Report

Printed 01/09/14 13:11

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1577410
PWSID No: 1090046

Sample ID L4648795-4 **Sample Description** WELL 7 EP105 **Samp. Date/Time/Temp** 12/11/13 12:19pm NA C **Sampled by** Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GENERAL CHEMISTRY continued							
Saturation Index	0.677			SM 2330B	1		12/20/13 10:48AM
Total Dissolved Solids	366	20.0	mg/l	SM 2540C	1		12/12/13 11:30AM P P
pH, lab	7.93	0.0100	units	SM 4500H+B	1		12/12/13 02:53PM P P
Detergents, MBAS	ND	0.0500	mg/l	SM5540C(MW340)	1		12/11/13 07:30PM JAZ
METALS							
Calcium hardness	203	0.250	mg/l	CALC (200.7)	1		12/20/13 10:48AM
Magnesium hardness	69.2	0.412	mg/l	CALC (200.7)	1		12/20/13 10:48AM
Hardness, total	272	0.500	mg/l	CALC (200.7)	1		12/20/13 10:48AM
Calcium	81.4	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:48AM PG
Iron	ND	0.0250	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:48AM PG
Magnesium	16.8	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:48AM PG
Manganese	0.0138	0.0100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:48AM PG
Aluminum	ND	0.0200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:07PM JW
Copper	0.0333	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:07PM JW
Silver	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:07PM JW
Zinc	0.0161	0.00500	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:07PM JW
FIELD SERVICES							
Field Temperature Fahrenheit	52.9	0.5	Deg. F	SM 2550B			12/11/13 12:19PM CU

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4648795-5 **Sample Description** RESERVOIR **Samp. Date/Time/Temp** 12/11/13 11:11am NA C **Sampled by** Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
GENERAL CHEMISTRY							
Chloride	27.5	5.00	mg/l	EPA 300.0	1		12/12/13 07:31PM XJY
Fluoride	ND	0.200	mg/l	EPA 300.0	1		12/12/13 07:31PM XJY
Sulfate	63.1	5.00	mg/l	EPA 300.0	1		12/12/13 07:31PM XJY
Color	ND	5.00	units	SM 2120B	1		12/11/13 09:30PM AGM
Color at pH	7.50		units	SM 2120B	1		12/11/13 09:30PM AGM
Odor	ND			SM 2150B			12/11/13 09:30PM JAZ
Alkalinity	182	2.00	mg/l	SM 2320B	1		12/12/13 03:00PM P P
Saturation Index	0.608			SM 2330B	1		12/20/13 10:50AM
Total Dissolved Solids	334	20.0	mg/l	SM 2540C	1		12/12/13 11:30AM P P
pH, lab	7.92	0.0100	units	SM 4500H+B	1		12/12/13 03:00PM P P
Detergents, MBAS	ND	0.0500	mg/l	SM5540C(MW340)	1		12/11/13 07:30PM JAZ

PP 78236 Serial Number: 3303305

QC Laboratories

Analytical Report

Printed 01/09/14 13:11

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1577410
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4648795-5	RESERVOIR	12/11/13 11:11am NA C	Customer

Received Date/Time/Temp 12/11/13 03:30pm 1.4 C **Iced (Y/N):** Y

Parameter	Result	RL	Units	Method	DF	Q	Test Date, Time, Analyst
METALS							
Calcium hardness	183	0.250	mg/l	CALC (200.7)	1		12/20/13 10:50AM
Magnesium hardness	65.9	0.412	mg/l	CALC (200.7)	1		12/20/13 10:50AM
Hardness, total	249	0.500	mg/l	CALC (200.7)	1		12/20/13 10:50AM
Calcium	73.2	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:50AM PG
Iron	ND	0.0250	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:50AM PG
Magnesium	16.0	0.100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:50AM PG
Manganese	ND	0.0100	mg/l	EPA 200.7 Rev 4.4	1		12/20/13 10:50AM PG
Aluminum	ND	0.0200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:13PM JW
Copper	0.0420	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:13PM JW
Silver	ND	0.00200	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:13PM JW
Zinc	0.0157	0.00500	mg/l	EPA 200.8 Rev 5.4	1		12/12/13 08:13PM JW
FIELD SERVICES							
Field Temperature Fahrenheit	51.1	0.5	Deg. F	SM 2550B			12/11/13 11:11AM CU

***** STATE FORMS SENT ELECTRONICALLY *****

The tests pH Lab and pH >15 Min. are analyzed past the 15 minute holding time for pH. Consult with your regulatory agency for further guidance on the use of this data.

Pennsylvania does not offer NELAC certification for Total Hardness by calculation.

PP 78236

Serial Number: 3303305

DEFINITIONS

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor
POS	Positive	Q	Qualifier
NEG	Negative	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit

ND	The concentration was not detected at or above RL / MDL.
J	Estimated value ≥ MDL but < RL. Applies to organics and general chemistry results (see below for metals)
DRY	Indicates the result was calculated and reported on a dry weight basis.
TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

Organics		***Metals***	
B	Analyte was detected in the method blank	B	Value is ≥ MDL and < RL
E	Concentration exceeds calibration range	E	Estimated value due to presence of interference
U	Compound not detected above MDL/RL	M	Duplicate precision for an element outside control limit
N	Presumptive evidence of compound in library search	N	Spike recovery for an element outside control limits
P1	Column precision criteria not met, report lower value	U	Element not detected above MDL/RL
P2	Column precision criteria not met, report higher value	Other	Defined in case narrative or data package
Other	Defined in case narrative or data package		

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the QCL Southampton Division (1205 Industrial Boulevard, Southampton, PA 18966). Food, pharmaceutical, and dairy testing were performed the QCL facility in Horsham (702 Electronics Drive, Horsham, PA 19044).
- The test results meet all requirements of TNI or other regulatory agencies, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. QCL is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- QCL is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. QCL's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by QCL: Nicki Smith (Environmental & Food Chemistry), Amanda Lukaszewski (Pharmaceutical), Ryan Baker (Dairy), Renata Paskevicius (Food Micro), Sue Abbott (QCL Delaware).

QCL Accreditations

Southampton Division	EPA ID:	PA00018
	NELAP IDs:	PA 09-00131; NJ PA166; NY 11223
	State IDs:	CT PH-0768; DE PA-018; MD 206
	FDA Reg #:	2515238

Delaware Division	State IDs:	DE 00011; MD 138	Reading Division	State ID:	PA 06-03543
Wind Gap Division	State IDs:	PA 48-01334; NJ PA001	Vineland Division	State ID:	NJ 06005
East Rutherford Division	State ID:	NJ 02015			

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 4 of 4

Lab LIMS No: L48-464 8795

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
5 HNO_3 pH <2 ½ pt pl
___ H_2SO_4 pH
___ NaOH pH
15 Unpreserved 5-Qt pl, 5-½ pt pl, 5-500 Amb
___ Hcl pH
14 Temp control OK ID# 1LED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpr	Bact	ANALYSIS REQUESTED		Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 4 EP101	12-11-13	11:49	X		DW	1							1		Sulfates		.98
well 10 EP102		9:38															.97
well 11 EP103		8:54															1.04
well 7 EP105		12:19															1.09
Reservoir		11:12															.86
well 4 EP101		11:49				3				1			2		Secondaries	.98	52.6°
well 10 EP102		9:39														.97	58.1°
well 11 EP103		8:55														1.04	57.0°
well 7 EP105		12:19														1.09	52.9°
Reservoir		11:11														.86	51.1°

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE. DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	12-11-13	14:14		12-11-13	1414
2	12-11-13	1530		12/11/13	1530
3					
4					
5					

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 4

Lab LIMS No: L4805725

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
3 HNO_3 pH <2 [illegible]
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
1-4 Temp control OC ID# [illegible] ILED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpr	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	12-11-13	11:15	X		DW	1								1	Bact/SPC	.95
3178716-12 Reservoir Low		11:18														.86
WELL 5 Raw		12:11														N/A
WELL 6 Raw		12:04														
WELL 7 Raw		12:23														
well 10 Raw		9:31														
well 11 Raw		9:05														
Well 11 EP103 Raw		8:49								1					Arsenic	N/A
well 11 EP103 Blended		8:49								1						
well 11 EP103 Vessel 1		9:03								1						

SAMPLED BY: (Name/Company)

Verbal/fax data due: / /
Hardcopy due: / /

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	12-11-13	14:14	1 [illegible]	12-11-13	1414
RELINQUISHED BY 2 [illegible]	12-11-13	1530	RECEIVED BY [illegible] Doherty	12/11/13	1530
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 08/10/2013 05:40pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4701023

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
ACL Div: NELAP ID's: PA 68-335, NJ OE568; State ID's: DE 00011, MD 138
Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4701023-1 **Sample Description** 25 S. FOURTH ST **Samp. Date/Time/Temp** 07/23/13 05:50am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0651 mg/l	0.0000500 mg/l*	08/01/13 06:32PM JW
LEAD	EPA 200.8 Rev 5.4	0.000320 B mg/l	0.0000200 mg/l*	08/01/13 06:32PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-2 **Sample Description** 27 S. FOURTH ST **Samp. Date/Time/Temp** 07/23/13 05:20am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.103 mg/l	0.0000500 mg/l*	08/01/13 06:40PM JW
LEAD	EPA 200.8 Rev 5.4	0.000760 B mg/l	0.0000200 mg/l*	08/01/13 06:40PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-3 **Sample Description** 120 S. FOURTH ST **Samp. Date/Time/Temp** 07/23/13 05:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0952 mg/l	0.0000500 mg/l*	08/01/13 06:42PM JW
LEAD	EPA 200.8 Rev 5.4	0.000430 B mg/l	0.0000200 mg/l*	08/01/13 06:42PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4701023-4	333 S. FOURTH ST	07/23/13 06:30am NA C	Customer

Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.348 mg/l	0.0000500 mg/l*	08/01/13 06:50PM JW
LEAD	EPA 200.8 Rev 5.4	0.00130 B mg/l	0.0000200 mg/l*	08/01/13 06:50PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4701023-5	523 W. MARKET ST	07/23/13 06:10am NA C	Customer

Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.147 mg/l	0.0000500 mg/l*	08/01/13 06:52PM JW
LEAD	EPA 200.8 Rev 5.4	0.000910 B mg/l	0.0000200 mg/l*	08/01/13 06:52PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4701023-6	308 N. FIFTH ST	07/23/13 07:00am NA C	Customer

Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.240 mg/l	0.0000500 mg/l*	08/01/13 06:54PM JW
LEAD	EPA 200.8 Rev 5.4	0.000190 B mg/l	0.0000200 mg/l*	08/01/13 06:54PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4701023-7	406 RACE ST	07/23/13 06:10am NA C	Customer

Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.352 mg/l	0.0000500 mg/l*	08/01/13 06:57PM JW
LEAD	EPA 200.8 Rev 5.4	0.00400 mg/l	0.0000200 mg/l*	08/01/13 06:57PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1539380
PWSID No: 1090046

Sample ID L4701023-8 **Sample Description** 501 RACE ST **Samp. Date/Time/Temp** 07/23/13 05:30am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.123 mg/l	0.0000500 mg/l*	08/01/13 06:59PM JW
LEAD	EPA 200.8 Rev 5.4	0.000290 B mg/l	0.0000200 mg/l*	08/01/13 06:59PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-9 **Sample Description** 503 RACE ST **Samp. Date/Time/Temp** 07/23/13 05:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.475 mg/l	0.0000500 mg/l*	08/01/13 07:02PM JW
LEAD	EPA 200.8 Rev 5.4	0.000580 B mg/l	0.0000200 mg/l*	08/01/13 07:02PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-10 **Sample Description** 612 RACE ST **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0744 mg/l	0.0000500 mg/l*	08/01/13 07:04PM JW
LEAD	EPA 200.8 Rev 5.4	0.000530 B mg/l	0.0000200 mg/l*	08/01/13 07:04PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-11 **Sample Description** 1123 OLD POST RD **Samp. Date/Time/Temp** 07/23/13 08:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.495 mg/l	0.0000500 mg/l*	08/01/13 07:07PM JW
LEAD	EPA 200.8 Rev 5.4	0.00120 B mg/l	0.0000200 mg/l*	08/01/13 07:07PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4701023-12 **Sample Description** 405 FERN DR **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.129 mg/l	0.0000500 mg/l*	08/01/13 07:12PM JW
LEAD	EPA 200.8 Rev 5.4	0.000390 B mg/l	0.0000200 mg/l*	08/01/13 07:12PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-13 **Sample Description** 418 GRANDVIEW AVE **Samp. Date/Time/Temp** 07/23/13 04:30am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0691 mg/l	0.0000500 mg/l*	08/01/13 08:13PM JW
LEAD	EPA 200.8 Rev 5.4	0.000120 B mg/l	0.0000200 mg/l*	08/01/13 08:13PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-14 **Sample Description** 1005 REVERE WAY **Samp. Date/Time/Temp** 07/23/13 07:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.297 mg/l	0.0000500 mg/l*	08/01/13 08:16PM JW
LEAD	EPA 200.8 Rev 5.4	0.00180 B mg/l	0.0000200 mg/l*	08/01/13 08:16PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-15 **Sample Description** 712 JEFFERSON DR **Samp. Date/Time/Temp** 07/23/13 05:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.177 mg/l	0.0000500 mg/l*	08/01/13 08:18PM JW
LEAD	EPA 200.8 Rev 5.4	0.000370 B mg/l	0.0000200 mg/l*	08/01/13 08:18PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4701023-16 **Sample Description** 541 CLOVER LN **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.202 mg/l	0.0000500 mg/l*	08/01/13 08:21PM JW
LEAD	EPA 200.8 Rev 5.4	0.000740 B mg/l	0.0000200 mg/l*	08/01/13 08:21PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L4701023-17 **Sample Description** 600 HUNTERS RUN **Samp. Date/Time/Temp** 07/23/13 05:15am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.353 mg/l	0.0000500 mg/l*	08/01/13 08:23PM JW
LEAD	EPA 200.8 Rev 5.4	0.000510 B mg/l	0.0000200 mg/l*	08/01/13 08:23PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L4701023-18 **Sample Description** 604 RUSTIC DR **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.124 mg/l	0.0000500 mg/l*	08/01/13 08:26PM JW
LEAD	EPA 200.8 Rev 5.4	0.00560 mg/l	0.0000200 mg/l*	08/01/13 08:26PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Sample ID L4701023-19 **Sample Description** 609 W. MARKET ST, C&C CAFE **Samp. Date/Time/Temp** 07/23/13 06:30am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.193 mg/l	0.0000500 mg/l*	08/01/13 08:28PM JW
LEAD	EPA 200.8 Rev 5.4	0.000310 B mg/l	0.0000200 mg/l*	08/01/13 08:28PM JW

*** STATE FORMS SENT ELECTRONICALLY ***

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4701023-20 **Sample Description** 313 WYCKFORD DRIVE **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.312 mg/l	0.0000500 mg/l*	08/01/13 08:30PM JW
LEAD	EPA 200.8 Rev 5.4	0.00120 B mg/l	0.0000200 mg/l*	08/01/13 08:30PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-21 **Sample Description** 618 RACE ST **Samp. Date/Time/Temp** 07/23/13 06:05am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.184 mg/l	0.0000500 mg/l*	08/01/13 08:50PM JW
LEAD	EPA 200.8 Rev 5.4	0.000440 B mg/l	0.0000200 mg/l*	08/01/13 08:50PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-22 **Sample Description** 322 N. SEVENTH ST **Samp. Date/Time/Temp** 07/23/13 05:12am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0899 mg/l	0.0000500 mg/l*	08/01/13 08:57PM JW
LEAD	EPA 200.8 Rev 5.4	0.00960 mg/l	0.0000200 mg/l*	08/01/13 08:57PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-23 **Sample Description** 410 S. FIFTH ST **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.225 mg/l	0.0000500 mg/l*	08/01/13 09:00PM JW
LEAD	EPA 200.8 Rev 5.4	0.000540 B mg/l	0.0000200 mg/l*	08/01/13 09:00PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4701023-24 **Sample Description** 412 S. FIFTH ST **Samp. Date/Time/Temp** 07/23/13 07:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.379 mg/l	0.0000500 mg/l*	08/01/13 09:02PM JW
LEAD	EPA 200.8 Rev 5.4	0.000730 B mg/l	0.0000200 mg/l*	08/01/13 09:02PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-25 **Sample Description** 21 S. CHESTNUT CT **Samp. Date/Time/Temp** 07/23/13 06:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.110 mg/l	0.0000500 mg/l*	08/01/13 09:05PM JW
LEAD	EPA 200.8 Rev 5.4	0.000440 B mg/l	0.0000200 mg/l*	08/01/13 09:05PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-26 **Sample Description** 222 PARKRIDGE DR **Samp. Date/Time/Temp** 07/23/13 04:30am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.465 mg/l	0.0000500 mg/l*	08/01/13 09:12PM JW
LEAD	EPA 200.8 Rev 5.4	0.00160 B mg/l	0.0000200 mg/l*	08/01/13 09:12PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-27 **Sample Description** 229 PARKRIDGE DR **Samp. Date/Time/Temp** 07/23/13 05:00am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.297 mg/l	0.0000500 mg/l*	08/01/13 09:14PM JW
LEAD	EPA 200.8 Rev 5.4	0.000780 B mg/l	0.0000200 mg/l*	08/01/13 09:14PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4701023-28 **Sample Description** 220 SPRING LN **Samp. Date/Time/Temp** 07/23/13 05:45am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0595 mg/l	0.0000500 mg/l*	08/01/13 09:16PM JW
LEAD	EPA 200.8 Rev 5.4	0.000110 B mg/l	0.0000200 mg/l*	08/01/13 09:16PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-29 **Sample Description** 527 S. NINTH ST **Samp. Date/Time/Temp** 07/23/13 05:45am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.581 mg/l	0.0000500 mg/l*	08/01/13 09:19PM JW
LEAD	EPA 200.8 Rev 5.4	0.00110 B mg/l	0.0000200 mg/l*	08/01/13 09:19PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4701023-30 **Sample Description** 307 HAMPTON CIR **Samp. Date/Time/Temp** 07/23/13 07:15am NA C **Sampled by** Customer
Received Date/Time/Temp 07/24/13 01:00pm 9.2 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
COPPER	EPA 200.8 Rev 5.4	0.0414 mg/l	0.0000500 mg/l*	08/01/13 09:21PM JW
LEAD	EPA 200.8 Rev 5.4	0.000130 B mg/l	0.0000200 mg/l*	08/01/13 09:21PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

QUALIFIERS: For values that are > than the MDL but < than the laboratory quantitation limit; a qualifier of "B" is used for Metals parameters and a qualifier of "J" is used for Wet Chemistry parameters. For Organics parameters; "B" indicates when the compound is found in the blank as well as in the sample;"J"indicates a value that is > than the MDL but < than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"(estimated) is when a compound exceeded the calibration range;"N" presumptive evidence of a compound; "D" is when a dilution was required.
cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.

Serial Number: 2967858

QC Laboratories

Analytical Report

Printed 08/10/13 17:40

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1539380
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
ACL Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

Serial Number: 2967858

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 1 of 3

Lab LIMS No: L4 701023

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
70 HNO_3 pH 4 gl gt PVR
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
92 Temp control ___ ID# ___
Tech fm SH

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
25 S. Fourth St.	7-23-13	5:50	1		DW	1							1		Lead + Copper	
27 S. Fourth St.		5:20														
120 S. Fourth St.		5:00														
333 S. Fourth St.		6:30														
523 W. Market St.		6:10														
308 N. Fifth St.		7:00														
406 Race St.		6:10														
501 Race St.		5:30														
503 Race St.		5:00														
612 Race St.		6:00														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	7/24	1120	1	7/24	1120
2	7/24	1300	2	7/24/13	1300
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

DELIVERED BY CUSTOMER

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC Laboratories

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4701023

Client/Acct. No. PRA - W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
10 HNO_3 pH 4 pH pk PUR
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
9.2 Temp control ___ ID# ___
Jed PA - 57

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
1123 Old Post Rd.	7-23-13	8:00	X		DW	1							1		Lead + Copper	
405 Fern Dr.		6:00														
418 Grandview Ave.		4:30														
1005 Revere Way		7:00														
712 Jefferson Dr.		5:00														
541 Clover Ln.		6:00														
600 Hunters Run		5:15														
604 Rustic Dr.		6:00														
609 W. Market St. C+C Cafe		6:30														
313 Wyckford Dr.		6:00														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	7/24	1121	1	7/24	1121
RELINQUISHED BY 2	7/24	1300	RECEIVED BY 2	7/24/13	1300
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

DELIVERED BY CUSTOMER

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC Laboratories

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L4701023

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
10 HNO_3 pH 2 glgt PUR
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
2 Temp control ___ ID# ___
Filed Pon-sil

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.

PROJECT

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED
618 Race St.	7-23-13	6:05	X		DW	1							1		Lead + Copper
322 N. Seventh St.		5:12													
410 S. Fifth St.		6:00													
412 S. Fifth St.		7:00													
21 S. Chestnut Ct.		6:00													
222 Parkridge Dr.		4:30													
229 Parkridge Dr.		5:00													
220 Spring Ln.		5:45													
527 S. Ninth St.		5:45													
307 Hampton Cir.		7:15													

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	7/24	1121		7/24	1121
RELINQUISHED BY 2	7/24	1300	RECEIVED BY 2	7/24/13	1300
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS: DELIVERED BY CUSTOMER

Hazardous: yes / no

FINAL REPORT

For example to aid completion, see reverse side.

QC LABORATORIES

Analytical Report

Serialized: 07/18/2013 06:47pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4681003

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg.# : 2515238
ACL Div: NELAP ID's: PA 68-335, NJ DE568; State ID's: DE 00011, MD 138
Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 07/18/13 18:47

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1531522
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4681003-1 **Sample Description** WELL 11 RAW **Samp. Date/Time/Temp** 07/09/13 08:59am NA C **Sampled by** Customer
Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.0149 mg/l	0.000500 mg/l*	07/16/13 07:38PM JW

Sample ID L4681003-2 **Sample Description** WELL 11 BLENDED **Samp. Date/Time/Temp** 07/09/13 08:59am NA C **Sampled by** Customer
Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00780 mg/l	0.000500 mg/l*	07/16/13 07:54PM JW

Sample ID L4681003-3 **Sample Description** WELL 11 VESSEL 1 **Samp. Date/Time/Temp** 07/09/13 09:03am NA C **Sampled by** Customer
Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00360 mg/l	0.000500 mg/l*	07/16/13 07:59PM JW

Serial Number: 2900429

QC Laboratories

Analytical Report

Printed 07/18/13 18:47

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1531522
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4681003-4	WELL 11 VESSEL 2	07/09/13 09:03am NA C	Customer

Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00390 mg/l	0.000500 mg/l*	07/16/13 08:04PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4681003-5	WELL 11 VESSEL 3	07/09/13 09:07am NA C	Customer

Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00380 mg/l	0.000500 mg/l*	07/16/13 08:09PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4681003-6	WELL 10 RAW	07/09/13 09:32am NA C	Customer

Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.0110 mg/l	0.000500 mg/l*	07/16/13 08:14PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4681003-7	WELL 10 FINISHED	07/09/13 09:32am NA C	Customer

Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00600 mg/l	0.000500 mg/l*	07/16/13 08:29PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4681003-8	WELL 10 VESSEL 1	07/09/13 09:32am NA C	Customer

Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	07/16/13 08:34PM JW

Serial Number: 2900429

QC Laboratories

Analytical Report

Printed 07/18/13 18:47

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1531522
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4681003-9	WELL 10 VESSEL 2	07/09/13 09:38am NA C	Customer

Received Date/Time/Temp 07/09/13 03:35pm 5.0 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	07/16/13 08:39PM JW

cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
ACL Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

Serial Number: 2900429

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4681003

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH Lot/Exp/pt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
___ Temp control 5.0°C IDC/KAD II

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	VOCs	HNO_3	NaOH	ZRAC	UPB	BACT	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	7-9-13	11:18	X		DW	1								1	Bact/SPC	.90
3178716-12 Reservoir Low		11:25												1	" "	1.00
~~Well 11 Raw~~		8:59								1					Arsenic	N/A
well 11 Blended		8:59														
well 11 Vessel 1		9:03														
well 11 Vessel 2		9:03														
well 11 Vessel 3		9:07														
well 10 Raw		9:32														
well 10 Finished		9:32														1.18
well 10 Vessel 1		9:32														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE. DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	7-9-13	13:35	[signature]	7-9-13	1400
RELINQUISHED BY 2 [signature]	7-9-13	1535	RECEIVED BY 2 [signature]	7/9/13	1535
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L4681003

Client/Acct. No. PRA-WOD505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
___ Temp control 5.0°C ID# QC(KAH) FT

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 Vessel 2	7-9-13	9:38	X		DW	1				1					Arsenic	N/A

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

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Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800. 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	7-9-13	13:35	1 [illegible]	7-9-13	1400
2 [illegible]	7-9-13	1535	2 [illegible]	7/9/13	1535
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 08/28/2013 01:16pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L4568892

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
ACL Div: NELAP ID's: PA 68-335, NJ DE568; State ID's: DE 00011, MD 138
Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 08/28/13 13:16

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1543406
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4568892-1 **Sample Description** WELL 11 RAW **Samp. Date/Time/Temp** 08/13/13 08:40am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.0138 mg/l	0.000500 mg/l*	08/20/13 11:40PM JW

Sample ID L4568892-2 **Sample Description** WELL 11 BLENDED **Samp. Date/Time/Temp** 08/13/13 08:41am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00780 mg/l	0.000500 mg/l*	08/20/13 11:54PM JW

Sample ID L4568892-3 **Sample Description** WELL 11 VESSEL 1 **Samp. Date/Time/Temp** 08/13/13 08:46am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	08/20/13 11:59PM JW

Serial Number: 3018705

QC Laboratories

Analytical Report

Printed 08/28/13 13:16

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1543406
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4568892-4	WELL 11 VESSEL 2	08/13/13 08:46am NA C	Customer

Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	08/21/13 12:04PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4568892-5	WELL 11 VESSEL 3	08/13/13 08:52am NA C	Customer

Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00400 mg/l	0.000500 mg/l*	08/21/13 12:09PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4568892-6	WELL 10 RAW	08/13/13 09:08am NA C	Customer

Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00970 mg/l	0.000500 mg/l*	08/21/13 12:14PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4568892-7	WELL 10 FINISHED	08/13/13 09:12am NA C	Customer

Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00570 mg/l	0.000500 mg/l*	08/21/13 12:29PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L4568892-8	WELL 10 VESSEL 1	08/13/13 09:12am NA C	Customer

Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00350 mg/l	0.000500 mg/l*	08/21/13 12:34PM JW

Serial Number: 3018705

QC Laboratories

Analytical Report

Printed 08/28/13 13:16

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1543406
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L4568892-9 **Sample Description** WELL 10 VESSEL 2 **Samp. Date/Time/Temp** 08/13/13 09:08am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00290 mg/l	0.000500 mg/l*	08/21/13 12:39PM JW

Sample ID L4568892-10 **Sample Description** EP101 WELL 4 **Samp. Date/Time/Temp** 08/13/13 10:45am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GENERAL CHEMISTRY				
NITRATE (AS N)	EPA 300.0	ND mg/l	0.500 mg/l	08/14/13 12:29PM XJY
NITRITE (AS N)	EPA 300.0	ND mg/l	0.100 mg/l	08/14/13 12:29PM XJY

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4568892-11 **Sample Description** EP102 WELL 10 **Samp. Date/Time/Temp** 08/13/13 09:12am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GENERAL CHEMISTRY				
NITRATE (AS N)	EPA 300.0	0.683 mg/l	0.500 mg/l	08/14/13 12:46PM XJY
NITRITE (AS N)	EPA 300.0	ND mg/l	0.100 mg/l	08/14/13 12:46PM XJY

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID L4568892-12 **Sample Description** EP103 WELL 11 **Samp. Date/Time/Temp** 08/13/13 08:37am NA C **Sampled by** Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GENERAL CHEMISTRY				
NITRATE (AS N)	EPA 300.0	ND mg/l	0.500 mg/l	08/14/13 01:03PM XJY
NITRITE (AS N)	EPA 300.0	ND mg/l	0.100 mg/l	08/14/13 01:03PM XJY

***** STATE FORMS SENT ELECTRONICALLY *****

Serial Number: 3018705

QC Laboratories

Analytical Report

Printed 08/28/13 13:16

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1543406
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4568892-13 EP105 WELL 7 08/13/13 11:04am NA C Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GENERAL CHEMISTRY				
NITRATE (AS N)	EPA 300.0	ND mg/l	0.500 mg/l	08/14/13 01:20PM XJY
NITRITE (AS N)	EPA 300.0	ND mg/l	0.100 mg/l	08/14/13 01:20PM XJY

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID **Sample Description** **Samp. Date/Time/Temp** **Sampled by**
L4568892-14 241 CEDARVIEW DRIVE 08/13/13 01:02pm NA C Customer
Received Date/Time/Temp 08/13/13 04:15pm 2.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES				
BROMODICHLOROMETHANE	EPA 524.2	11.8 ug/l	1.00 ug/l	08/23/13 11:46AM JSH
BROMOFORM	EPA 524.2	2.55 ug/l	1.00 ug/l	08/23/13 11:46AM JSH
CHLOROFORM	EPA 524.2	11.6 ug/l	1.00 ug/l	08/23/13 11:46AM JSH
DIBROMOCHLOROMETHANE	EPA 524.2	9.62 ug/l	1.00 ug/l	08/23/13 11:46AM JSH
TOTAL THM	EPA 524.2	35.6 ug/l	1.00 ug/l	08/23/13 11:46AM JSH
GAS CHROMATOGRAPHY				
DIBROMOACETIC ACID	EPA 552.2	1.64 ug/l	1.00 ug/l	08/22/13 10:51PM AJG
DICHLOROACETIC ACID	EPA 552.2	2.35 ug/l	1.00 ug/l	08/22/13 10:51PM AJG
MONOBROMOACETIC ACID	EPA 552.2	ND ug/l	1.00 ug/l	08/22/13 10:51PM AJG
MONOCHLOROACETIC ACID	EPA 552.2	ND ug/l	2.00 ug/l	08/22/13 10:51PM AJG
TOTAL HAA-5	EPA 552.2	5.03 ug/l	2.00 ug/l	08/22/13 10:51PM AJG
TRICHLOROACETIC ACID	EPA 552.2	1.04 ug/l	1.00 ug/l	08/22/13 10:51PM AJG

***** STATE FORMS SENT ELECTRONICALLY *****

cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
ACL Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001

Serial Number: 3018705

QC Laboratories

Analytical Report

Printed 08/28/13 13:16

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1543406
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

Serial Number: 3018705

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L4568892

Client/Acct. No. PRA - W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH 4 1/4pt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Hcl pH
28 Temp control QC ID# ___ ICE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	VOTS	HNO_3	NaOH	ZnAc	Unpt'd	BACT	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	8-13-13	10:06	X		DW	1								X	Bact / SPC	1.01
3178716-12 Reservoir Low		10:08												X	" "	.83
Well 11 Raw		8:40								1					Arsenic	N/A
well 11 Blended		8:41														
well 11 Vessel 1		8:46														
well 11 Vessel 2		8:46														
well 11 Vessel 3		8:52														
well 10 Raw		9:08														
well 10 Finished		9:12														
well 10 Vessel 1		9:12														

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig: Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK. I.E. 8AM IS 0800. 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	8-13-13	14:04	1 [signature]	8-13-13	1520
RELINQUISHED BY 2 [signature]	8-13-13	16:15	RECEIVED BY 2 [signature]	8/13/13	1615
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L4568892

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA. 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY: NH_4Cl-250ml

- # 3 Ascorbic/HCl Vials (No TB) # ___ HCl Vials
- # ___ $Na_2S_2O_3$
- # ___ Na OH/Zn acetate pH
- # 1 HNO_3 pH <2 1/2pint
- # 4 H_2SO_4 pH <2 1/2pint
- # ___ NaOH pH
- # 4 Unpreserved 1/2pint
- # ___ HCl pH
- # 2-8 Temp control QC ID# 1 cooler

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Total	H_2SO_4	HCl	VOTS	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 Vessel 2	8-13-13	9:08	X		DW	1				1					Arsenic	N/A
EP101 well 4		10:45				2	1						1		Nitrates	
EP102 well 10		9:12				2	1						1			
EP103 well 11		8:37				2	1						1			
EP105 well 7		11:04				2	1						1			
241 Cedarview Dr.		13:02				1								1	HAA5's	.41
241 Cedarview Dr.		13:02				3			3						THM's	.41

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	8-13-13	14:04	1 [signature]	8/13/13	1520
2 [signature]	8-13-13	1615	2 [signature]	8/13/13	1615
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC LABORATORIES

Analytical Report

Serialized: 09/26/2013 05:42pm

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE,PA 18944

Regarding:

PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

PROJECT ID:

W00505

LABORATORY REPORT NUMBER:

L1019470

Authorized by: Oommen V. Kappil, QA Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 · Phone: 215-355-3900 · Toll Free: 800-289-8378 · Fax: 215-355-7231 · www.qclaboratories.com

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Regarding:
GARY WINTON
PERKASIE REGIONAL AUTHORITY
306 N. 5TH STREET
PO BOX 159
PERKASIE, PA 18944

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1552601
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID L1019470-1 **Sample Description** WELL 11 EP 103 RAW **Samp. Date/Time/Temp** 09/10/13 08:52am NA C **Sampled by** Customer
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.0129 mg/l	0.000500 mg/l*	09/12/13 07:49PM JW

Sample ID L1019470-2 **Sample Description** WELL 11 EP 103 BLENDED **Samp. Date/Time/Temp** 09/10/13 08:54am NA C **Sampled by** Customer
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00770 mg/l	0.000500 mg/l*	09/12/13 07:54PM JW

Sample ID L1019470-3 **Sample Description** WELL 11 EP 103 VESSEL 1 **Samp. Date/Time/Temp** 09/10/13 08:57am NA C **Sampled by** Customer
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00390 mg/l	0.000500 mg/l*	09/12/13 07:59PM JW

PP 78236 Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1552601
PWSID No: 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-4	WELL 11 EP 103 VESSEL 2	09/10/13 09:02am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00400 mg/l	0.000500 mg/l*	09/12/13 08:04PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-5	WELL 11 EP 103 VESSEL 3	09/10/13 08:57am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00450 mg/l	0.000500 mg/l*	09/12/13 08:09PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-6	WELL 10 EP 102 RAW	09/10/13 09:17am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00850 mg/l	0.000500 mg/l*	09/12/13 08:24PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-7	WELL 10 EP 102 FINISHED	09/10/13 09:17am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	0.00470 mg/l	0.000500 mg/l*	09/12/13 08:29PM JW

***** STATE FORMS SENT ELECTRONICALLY *****

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-8	WELL 10 EP 102 VESSEL 1	09/10/13 09:20am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	09/12/13 08:34PM JW

PP 78236

Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No: W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1552601
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-9	WELL 10 EP 102 VESSEL 2	09/10/13 09:23am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
METALS				
ARSENIC	SM 3113B	ND mg/l	0.000500 mg/l*	09/12/13 08:39PM JW

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L1019470-10	WELL 10 EP 102 RAW	09/10/13 09:21am NA C	Customer

Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES				
1,1,1,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,1,1-TRICHLOROETHANE	EPA 524.2	1.99 ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,1,2,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.100 ug/l*	09/20/13 02:00PM ARG
1,1,2-TRICHLOROETHANE	EPA 524.2	0.0700 J ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,1-DICHLOROETHANE	EPA 524.2	0.500 J ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,1-DICHLOROETHENE	EPA 524.2	3.85 ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,1-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,2,3-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,2,3-TRICHLOROPROPANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:00PM ARG
1,2,4-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
1,2,4-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,2-DIBROMO-3-CHLOROPROPANE	EPA 524.2	ND ug/l	0.350 ug/l*	09/20/13 02:00PM ARG
1,2-DIBROMOETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,2-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
1,2-DICHLOROETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
1,3,5-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
1,3-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
1,3-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
1,4-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:00PM ARG
2,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:00PM ARG
2-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
4-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:00PM ARG
BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
BROMOBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
BROMOCHLOROMETHANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:00PM ARG
BROMODICHLOROMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
BROMOFORM	EPA 524.2	ND ug/l	0.0900 ug/l*	09/20/13 02:00PM ARG
BROMOMETHANE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:00PM ARG
CARBON TETRACHLORIDE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
CHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
CHLOROETHANE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:00PM ARG
CHLOROFORM	EPA 524.2	0.0600 J ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
CHLOROMETHANE	EPA 524.2	ND ug/l	0.140 ug/l*	09/20/13 02:00PM ARG
CIS-1,2-DICHLOROETHENE	EPA 524.2	21.5 ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
CIS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
DIBROMOCHLOROMETHANE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
DIBROMOMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG

PP 78236 Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No: W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1552601
PWSID No: 1090046

Sample ID L1019470-10 **Sample Description** WELL 10 EP 102 RAW
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Samp. Date/Time/Temp 09/10/13 09:21am NA C **Sampled by** Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued				
DICHLORODIFLUOROMETHANE	EPA 524.2	ND ug/l	0.260 ug/l*	09/20/13 02:00PM ARG
ETHYL BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
HEXACHLOROBUTADIENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
ISOPROPYLBENZENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
M&P-XYLENES	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:00PM ARG
METHYL TERTIARY BUTYL ETHER	EPA 524.2	ND ug/l	0.250 ug/l*	09/20/13 02:00PM ARG
METHYLENE CHLORIDE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:00PM ARG
N-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
N-PROPYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
NAPHTHALENE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:00PM ARG
O-XYLENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
P-ISOPROPYLTOLUENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
SEC-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
STYRENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:00PM ARG
T-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
TETRACHLOROETHENE	EPA 524.2	2.49 ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
TOLUENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
TRANS-1,2-DICHLOROETHENE	EPA 524.2	0.0700 J ug/l	0.0500 ug/l*	09/20/13 02:00PM ARG
TRANS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:00PM ARG
TRICHLOROETHENE	EPA 524.2	37.0 ug/l	0.0700 ug/l*	09/20/13 02:00PM ARG
TRICHLOROFLUOROMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:00PM ARG
VINYL CHLORIDE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:00PM ARG

Sample ID L1019470-11 **Sample Description** WELL 10 EP 102 FINISHED
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Samp. Date/Time/Temp 09/10/13 09:31am NA C **Sampled by** Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES				
1,1,1,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,1,1-TRICHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,1,2,2-TETRACHLOROETHANE	EPA 524.2	ND ug/l	0.100 ug/l*	09/20/13 02:39PM ARG
1,1,2-TRICHLOROETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,1-DICHLOROETHANE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,1-DICHLOROETHENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,1-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
1,2,3-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,2,3-TRICHLOROPROPANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:39PM ARG
1,2,4-TRICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
1,2,4-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,2-DIBROMO-3-CHLOROPROPANE	EPA 524.2	ND ug/l	0.350 ug/l*	09/20/13 02:39PM ARG
1,2-DIBROMOETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,2-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
1,2-DICHLOROETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
1,3,5-TRIMETHYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
1,3-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG

PP 78236 Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No:W00505, PERKASIE REGIONAL AUTHORITY
Project No: W00505, PERKASIE REGIONAL AUTHORITY

P.O. No:

Inv. No: 1552601
PWSID No: 1090046

Sample ID **Sample Description**
L1019470-11 WELL 10 EP 102 FINISHED
Received Date/Time/Temp 09/10/13 04:05pm 3.8 C **Iced (Y/N):** Y

Samp. Date/Time/Temp Sampled by
09/10/13 09:31am NA C Customer

Parameter	Method	Result	RLs	Test Date, Time, Analyst
GAS CHROMATOGRAPHY MASS SPECTROMETRY; VOLATILES continued				
1,3-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
1,4-DICHLOROBENZENE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:39PM ARG
2,2-DICHLOROPROPANE	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:39PM ARG
2-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
4-CHLOROTOLUENE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:39PM ARG
BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
BROMOBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
BROMOCHLOROMETHANE	EPA 524.2	ND ug/l	0.0800 ug/l*	09/20/13 02:39PM ARG
BROMODICHLOROMETHANE	EPA 524.2	0.440 J ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
BROMOFORM	EPA 524.2	0.910 ug/l	0.0900 ug/l*	09/20/13 02:39PM ARG
BROMOMETHANE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:39PM ARG
CARBON TETRACHLORIDE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
CHLOROBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
CHLOROETHANE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:39PM ARG
CHLOROFORM	EPA 524.2	0.270 J ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
CHLOROMETHANE	EPA 524.2	ND ug/l	0.140 ug/l*	09/20/13 02:39PM ARG
CIS-1,2-DICHLOROETHENE	EPA 524.2	0.380 J ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
CIS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
DIBROMOCHLOROMETHANE	EPA 524.2	0.860 ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
DIBROMOMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
DICHLORODIFLUOROMETHANE	EPA 524.2	ND ug/l	0.260 ug/l*	09/20/13 02:39PM ARG
ETHYL BENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
HEXACHLOROBUTADIENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
ISOPROPYLBENZENE	EPA 524.2	ND ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
M&P-XYLENES	EPA 524.2	ND ug/l	0.220 ug/l*	09/20/13 02:39PM ARG
METHYL TERTIARY BUTYL ETHER	EPA 524.2	ND ug/l	0.250 ug/l*	09/20/13 02:39PM ARG
METHYLENE CHLORIDE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:39PM ARG
N-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
N-PROPYLBENZENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
NAPHTHALENE	EPA 524.2	ND ug/l	0.500 ug/l*	09/20/13 02:39PM ARG
O-XYLENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
P-ISOPROPYLTOLUENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
SEC-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
STYRENE	EPA 524.2	ND ug/l	0.0300 ug/l*	09/20/13 02:39PM ARG
T-BUTYLBENZENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
TETRACHLOROETHENE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
TOLUENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
TRANS-1,2-DICHLOROETHENE	EPA 524.2	ND ug/l	0.0500 ug/l*	09/20/13 02:39PM ARG
TRANS-1,3-DICHLOROPROPENE	EPA 524.2	ND ug/l	0.0400 ug/l*	09/20/13 02:39PM ARG
TRICHLOROETHENE	EPA 524.2	0.310 J ug/l	0.0700 ug/l*	09/20/13 02:39PM ARG
TRICHLOROFLUOROMETHANE	EPA 524.2	ND ug/l	0.0600 ug/l*	09/20/13 02:39PM ARG
VINYL CHLORIDE	EPA 524.2	ND ug/l	0.110 ug/l*	09/20/13 02:39PM ARG

***** STATE FORMS SENT ELECTRONICALLY *****

cc: GARY WINTON, PERKASIE REGIONAL AUTHORITY
PHILLIP SMITH, BUCKS COUNTY HEALTH DEPARTMENT

PP 78236

Serial Number: 3095451

QC Laboratories

Analytical Report

Printed 09/26/13 17:42

Account No:W00505, PERKASIE REGIONAL AUTHORITY **P.O. No:** **Inv. No:** 1552601
Project No: W00505, PERKASIE REGIONAL AUTHORITY **PWSID No:** 1090046

General Notes:

A result of "ND" indicates that the analyte tested was either not detected or the concentration was below the RLs.
Definitions: NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC= Too numerous to count; pres=presumptive
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
MCL= EPA recommended "maximum contaminant level", PLs = Customer-specific permit limits.
The test results meet all requirements of NELAC, where applicable, unless otherwise specified.
The report shall not be reproduced except in full without the written consent of the laboratory.
Unless otherwise specified, the Environmental testing except Field Parameters was performed by QC Inc. located at 1205 Industrial Blvd., Southampton, PA 18966; Pharmaceutical, Dairy, Food Chemistry and Food Microbiological tests were performed by QC Inc. located at 702 Electronic Dr., Horsham, PA 19044.
QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. # : 2515238
Delaware Div: State ID's: DE 00011, MD 138; Wind Gap Div: State ID's: PA 48-01334, NJ PA001
E. Rutherford Div: State ID: NJ 02015; Vineland Div: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
The reported results relate only to the samples.
All samples are collected as "grab" samples unless otherwise identified.

Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.
* - The "RLs" represents a reporting/quantitation limit. When an "*" is present in the column identified as the "RLs", it is being reported as a Method Detection Limit (MDL).

PP 78236 Serial Number: 3095451

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 2 of 3

Lab LIMS No: L1019470

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St.
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
8 HNO_3 pH 4w/2pt
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ HCl pH
3-8 Temp control QC ID# [illegible] / LED

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
3178716-11 Reservoir High	9-10-13	11:07	X		DW	1								1	Bact / SPC	.93
~~3178716-12 Reservoir Low~~		11:10												1		.81
well 11 EP103 Raw		8:52								1					Arsenic	N/A
well 11 EP103 Blended		8:54														
well 11 EP103 Vessel 1		8:57														
well 11 EP103 Vessel 2		9:02														
well 11 EP103 Vessel 3		8:57														
well 10 EP102 Raw		9:17														
well 10 EP102 Finished		9:17														
well 10 EP102 Vessel 1		9:20														

SAMPLED BY: (Name/Company)

Verbal/fax data due: / /
Hardcopy due: / /

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	9-10-13	13:05	[illegible]	9/10/13	1425
RELINQUISHED BY 2 [illegible]	9-10-13	1605	[illegible]	9/10/13	1605
RELINQUISHED BY 3	DATE	TIME	RECEIVED BY 3	DATE	TIME
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	DATE	TIME

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QCL

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page 3 of 3

Lab LIMS No: L1019470

Client/Acct. No. PRA-W00505
Address 306 N. Fifth St
City/State/Zip Perkasie, PA 18944
Phone/Fax 215-622-1228
Client Contact Stefan Green

Bill to/Report to: (if different)

Sampling Site Address: (if different)

P.O. No.

QC Contact

LAB USE ONLY:

6 Ascorbic/HCl Vials # ___ HCl Vials
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH
___ H_2SO_4 pH
___ NaOH pH
___ Unpreserved
___ Vol pH
38 Temp control QC ID# 1LEO

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
OX: OTHER

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	Unpres	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
well 10 EP102 Vessel 2	9-10-13	9:23	X		DW	1				1					Arsenic	N/A
well 10 EP102 Raw	↓	9:21	↓		↓	3			3						VOC's	N/A
well 10 EP102 Finished	↓	9:31	↓		↓	3			3						VOC's	1,12

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE. DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1 Stefan Green	9-10-13	13:05	[illegible]	9-10-13	1425
2 [illegible]	9-10-13	16:05	[illegible]	9/10/13	1605
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

QC Laborat

1205 Industrial Blvd. Ph
Southampton, PA 18966-0514 Fa

Client/Acct. No. HATFIELDTW
Address 3200 ADV
City/State/Zip. Colmar
Phone/Fax
Client Contact PETER DO

LAB USE ONLY

PROJECT	NPDES
FIELD ID	
	Quarterly T
	INFLUENT
	Trip blank

SAMPLED BY: (Name/Company) JP/HTMA

Verba
Hardc
Pleas

SAMPLE CUSTODY EXCHANGES

RELINQUISHED BY SAMPLER 1
RELINQUISHED BY 2
RELINQUISHED BY
RELINQUISHED BY 4
RELINQUISHED BY 5

HATFIELD TOWNSHIP MUNICIPAL AUTHORITY
3200 ADVANCE LANE
COLMAR, PA 18915

Phone: (215)822-9300
FAX: (215)822-1869

QC LABORATORIES
LOGIN CHAIN OF CUSTODY REPORT (ln01)
Sep 10 2013, 04:45 pm

Login No: L4562440 (Verbal)
Project: AC0092
Job ID:
PWSID:

Laboratory Sample Number	Sample ID	Sample Date and Time	Rcvd Date	H/C Due Date	Rush	Tier	Locator
L4562440-1	NPDES UPSTREAM GRAB	09/04/13 10:30 AM	09/10/13	09/17/13			
CU		Cl: pH:		Br:			
09/17/13 MISC	CHAIN OF CUSTODY RETURN						
09/17/13 WASTEWATER	TOTAL HARDNESS						
09/17/13 WASTEWATER	CALCIUM						
09/17/13 WASTEWATER	MAGNESIUM						
L4562440-2	FINAL EFFLUENT GRAB	09/04/13 10:30 AM	09/10/13	09/17/13			
CU		Cl: pH:		Br:			
09/17/13 WASTEWATER	TOTAL HARDNESS						
09/17/13 WASTEWATER	CALCIUM						
09/17/13 WASTEWATER	MAGNESIUM						
L4562440-3	DOWNSTREAM GRAB	09/04/13 10:30 AM	09/10/13	09/17/13			
CU		Cl: pH:		Br:			
09/17/13 WASTEWATER	TOTAL HARDNESS						
09/17/13 WASTEWATER	CALCIUM						
09/17/13 WASTEWATER	MAGNESIUM						

L4562440-1 A 0910
HATFIELD TOWNSHIP MUNICIPA 10
09/04/13
NPDES UPSTREAM GRAB

L4562440-2 A 0910
HATFIELD TOWNSHIP MUNICIPA 10
09/04/13
FINAL EFFLUENT GRAB

L4562440-3 A 0910
HATFIELD TOWNSHIP MUNICIPA 10
09/04/13
DOWNSTREAM GRAB

Signature: _____

Date: _____

QC Laboratories

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

CHAIN OF CUSTODY

Page ____ of ____

Lab LIMS No: L4690607

Client/Acct. No. HATFIELD TWP M.A.
Address 3200 ADVANCE LANE
City/State/Zip COLMAR PA 18915
Phone/Fax
Client Contact PETER DORNEY

Bill to/Report to: (if different) SAME
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY:

___ Ascorbic/HCl Vials
3 HCl Vials TB
___ $Na_2S_2O_3$
___ Na OH/Zn acetate pH
1 HNO_3 pH
1 H_2SO_4 pH
1 NaOH pH
6 Unpreserved
___ Hcl pH
FS Temp control QC ID# ICE

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

LAB USE ONLY

PROJECT NPDES

FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	VOAs	HNO_3	NaOH	ZnAc	Unpre	Bact	ANALYSIS REQUESTED	Field pH, Temp (C or F), DO, Cl_2, S. Cond. etc.
															Priority Pollutants	
Quarterly Truck Waste	9/10/13	0700		/	WW	15	1		6	1	1		6		CN	
															CN-WID	
															Boron	
															Bromide	
Trip blank						1			1						Hex Chrome	
															Al Fe (T) Mo	

SAMPLED BY: (Name/Company) JF/HTMA

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☐ Standard ☐ Forms ☐ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1	9-10-13	1325	1	9-10-13	1325
2	9-10-13	1600	2	9/10/13	1600
3			3		
4			4		
5			5		

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:

Hazardous: yes / no

FINAL REPORT

For example to aid completion, see reverse side.

P209 11-01-11

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Laboratory Report

for

Perkasie Regional Authority
P.O. Box 159
Perkasie, PA 18944-0159
Attention: Gary J. Winton

Date of Issue
04/29/2013
EUROFINS EATON
ANALYTICAL

01114CA

Report: 429461
Project: UCMR3
Group: PA1090046/Perkasie Borough Authority

FWH: Fred Haley
Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nevada**	CA00006-2012-1
Arkansas	Certified	**New Hampshire**	2959-11
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-011
Georgia	947	**Pennsylvania**	68-565
Guam	12-006r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-12-4
Kansas	E-10268	**Utah**	Mont-1
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA130008	**Virginia**	00210
Maine	CA0006	**Washington**	C383
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

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Acknowledgement of Samples Received

Addr: **Perkasie Regional Authority**
P.O. Box 159
Perkasie, PA 18944-0159

Attn: Gary J. Winton
Phone:

Client ID: PERKASIE-PA
Folder #: 429461
Project: UCMR3
Sample Group: PA1090046/Perkasie Borough Authority
Project Manager: Fred Haley
Phone: (626) 386-1127

The following samples were received from you on **March 27, 2013**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201303270196	**00102-102-Well 10 EP**			**03/26/2013 0920**
	Sample Type: EP Sample Event: SE1 Facility ID: 00102 Sample Point ID: 102 PWSID: PA1090046			
	@UCMR3 200.8	@UCMR3 218.7	@UCMR3 522 C	
	@UCMR3 524.3	@UCMR3 537	@UCMR3 Chlorate	
201303270197	**FB::00102-102-Well 10 EP**			**03/26/2013 0800**
	@UCMR3 200.8 FB	@UCMR3 524.3 TB	@UCMR3 537 FB	

Test Description

@UCMR3 200.8 -- UCMR3 Metals

@UCMR3 200.8 FB -- UCMR3 Metals

@UCMR3 218.7 -- UCMR3 Hexavalent Chromium

@UCMR3 522 C -- UCMR3 1,4-Dioxane by EPA 522

@UCMR3 524.3 -- @UCMR3 524.3

@UCMR3 524.3 TB -- @UCMR3 524.3

@UCMR3 537 -- UCMR3 537

@UCMR3 537 FB -- UCMR3 537

@UCMR3 Chlorate -- UMCR3 Chlorate

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426, 31

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UCMR3 CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016-3629

Phone: 626 386 1100/ 800 566 LABS (800 566 5227)
Fax: 626 386 1101

Website: www.EatonAnalytical.com

PWSID: PA1090046
Example: (CA1234567)

EUROFINS EATON ANALYTICAL USE ONLY:

Folder No: 6

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: 6

SAMPLES LOGGED IN BY: IN

SAMPLE TEMP RECEIVED AT:

SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

[ ] Colton / No. California / Arizona ____ °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)

[✓] Monrovia 3.6 °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)

CONDITION OF BLUE ICE: Frozen ✓ Partially Frozen ____ Thawed ____ Wet Ice ____ No Ice ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Perkasie Borough Authority

PROJECT CODE: UCMR3

EPA CLIENT CODE: Perkasie, PA.

COC ID:

SAMPLE GROUP: Perkasie Borough Authority

TAT requested: rush by adv notice only STO ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

(check for yes)

COMPLIANCE SAMPLES [ ]

- Requires upload to EPA database [ ]

Regulation: UCMR3

OTE: we MUST have PWSID#, Facility ID, Sample Point ID, and Sample Type to be able to upload data to EPA Databas

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes), OR

list ANALYSES REQUIRED (Mark "X" in all test required for each sample line)

	SAMPLE DATE	SAMPLE TIME	FACILITY ID (per EPA Requirement) - 5 characters Max	UNIQUE FIELD SAMPLE ID (per EPA Requirement) - 20 characters max	WATER SOURCE TYPE (1)	SAMPLE EVENT (2)	SAMPLE POINT TYPE ID (3)	DISINFECTANT TYPE (4)	UCMR3 200.8	UCMR3 200.8 - FB *	UCMR3 218.7	UCMR3 522	UCMR3 524.3	UCMR3 524.3 - TB *	UCMR3 537	UCMR3 537 - FB *	UCMR3 539	UCMR3 539 - FB *	UCMR3 Chlorate	UCMR3 537 TB			SAMPLER COMMENTS
2013	3-26	[redacted]	00102	102	GW	SE1	EP	C4N	1	1	1	3	4	2	3	1			1	1			well 10
		9:20																					

(1) **Water Source Type:** **SW:** Surface Water **GW:** Ground Water **GU:** Ground Water under the direct influence of SW **MX:** Any Combination of previous three water types

(2) **Sample Event Code:** **SE1** (first) **SE2** (second) **SE3** (third) **SE4** (fourth)

(3) **Sampling Point Type ID:** **EP:** Entry Point to the distribution system **MR:** Distribution System sample at maximum residence time

(4) **Disinfectant Type:** **CLGA:** Gaseous Chlorine **CLOF:** Offsite Generated Hypochlorite (stored as liquid form) **CLON:** Onsite Generated Hypochlorite (no storage) **CAGC:** Chloramine (formed from gaseous chlorine) **CAOF:** Chloroamine (formed from offsite hypochlorite) **CAON:** Chloroamine (formed from onsite hypochlorite) **CLDO:** Chlorine Dioxide **OZON:** Ozone **ULVL:** Ultraviolet Light **OTHD:** All Other Types of Disinfectant **NODU:** No Disinfectant Used

* Field Blank (FB) or Trip Blank (TB) are analyzed only when associated samples have positive results (>MRL)

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
SAMPLED BY	Stefan Green	Stefan Green	Perkasie Borough Authority	3-26-13	1:00
RELINQUISHED BY:	Stefan Green	"	"	"	1:00
RECEIVED BY:	[illegible]	STEVE DAVIES	LANCASTER LABS	3-26-13	1530
RELINQUISHED BY:	[illegible]	STEVE DAVIES	LANCASTER LABS	3-26-13	1600
RECEIVED BY:	[illegible]	CHRIS CARREON	DEA	3-27-13	1130

PAGE ____ OF ____

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Laboratory Comments
Report: 429461

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

The Comments Report may be blank if there are no comments for this report.

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UCMR Field Blank
Report: 429461

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
03/27/2013

The results section will be blank if there are no exceedances of UCMR3 Field Blank criteria. Field Blank Evaluation is required for positive detection in the associated sample for Metals by 200.8, VOCs by 524.3, PFCs by 537, and Hormones by 539 (SS monitoring only). A detection on this report indicates need for re-sample for the associated site and test. Reference: UCMR3 Laboratory Approval Requirements and Information Document V2, May 2012 section 8.1 Field Blanks.

UCMR3 Field Blanks are not required to be analyzed, if the target analytes are not detected in the associated samples. In that event, the Field Blank data are not available (NA) for reporting.

Results Section

Analyzed	Analyte	Sample ID	Result	Units	UCMR Limit

SUMMARY OF POSITIVE DATA ONLY

Method	Method description	Positive Data Limit = UCMR Limit
@UCMR3 200.8 FB	Metals	Any detection Greater than 1/3
@UCMR3 524.3 TB	Volatiles	MRL
@UCMR3 537 FB	Perfluorinated	Any detection Greater than 1/3
@UCMR3 539 FB	Hormones	MRL

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Laboratory Hits
Report: 429461

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
03/27/2013

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201303270196	**00102-102-Well 10 EP**				
04/02/2013 15:40	Chlorodifluoromethane		2200		ng/L	400
03/29/2013 21:59	Chromium		0.35		ug/L	0.2
03/29/2013 21:59	Molybdenum		2.6		ug/L	1
03/29/2013 21:59	Strontium		3800		ug/L	0.3
03/29/2013 21:59	Vanadium		0.25		ug/L	0.2

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 429461

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
03/27/2013

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
00102-102-Well 10 EP (201303270196)						**Sampled on 03/26/2013 0920**		
Sample Type: EP								
Sample Event: SE1								
Facility ID: 00102								
Sample Point ID: 102								
PWSID: PA1090046								
		UCMR 200.8 - UCMR3 Metals						
	03/29/2013 21:59	700628	(UCMR 200.8)	Chromium	0.35	ug/L	0.2	1
	03/29/2013 21:59	700628	(UCMR 200.8)	Cobalt	ND	ug/L	1	1
	03/29/2013 21:59	700628	(UCMR 200.8)	Molybdenum	2.6	ug/L	1	1
	03/29/2013 21:59	700628	(UCMR 200.8)	Strontium	3800	ug/L	0.3	1
	03/29/2013 21:59	700628	(UCMR 200.8)	Vanadium	0.25	ug/L	0.2	1
	03/29/2013 21:59	700628	(UCMR 200.8)	Indium (115)	98	%		1
	03/29/2013 21:59	700628	(UCMR 200.8)	Scandium (45)	108	%		1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
4/1/2013	04/03/2013 20:24	701080	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
4/1/2013	04/03/2013 20:24	701080	(EPA 522)	Dioxane-d8	116	%		0
4/1/2013	04/03/2013 20:24	701080	(EPA 522)	THF-d8	89	%		0
		UCMR 300.1 - UMCR3 Chlorate						
	03/28/2013 18:53	700282	(UCMR 300.1)	Chlorate	ND	ug/L	20	1
	03/28/2013 18:53	700282	(UCMR 300.1)	DCA	98	%		1
		EPA 218.7 - UCMR3 Hexavalent Chromium						
	04/01/2013 18:55	700679	(EPA 218.7)	Hexavalent Chromium (Dissolved)	ND	ug/L	0.03	1
		EPA 537 - UCMR3 537						
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	ND	ug/L	0.04	1
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	ug/L	0.03	1
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	Perfluorooctanoic acid - PFOA	ND	ug/L	0.02	1
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	13C-PFDA - Surr#2	81	%		0
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	13C-PFHxA - Surr#1	93	%		0
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	13C-PFOA– IS#1	107	%		0
3/28/2013	03/29/2013 18:28	700481	(EPA 537)	13C-PFOS– IS#2	107	%		0
		EPA 524.3 - @UCMR3 524.3						
4/1/2013	04/01/2013 21:17	700642	(EPA 524.3)	1,1-Dichloroethane	ND	ng/L	30	1
4/1/2013	04/01/2013 21:17	700642	(EPA 524.3)	1,2,3-Trichloropropane	ND	ng/L	30	1
4/1/2013	04/01/2013 21:17	700642	(EPA 524.3)	1,3-butadiene	ND	ng/L	100	1

...nding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 429461

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
03/27/2013

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	Bromochloromethane	ND	ng/L	60	1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	Bromomethane (Methyl Bromide)	ND	ng/L	200	1
4/2/2013	04/02/2013	15:40	700911	(EPA 524.3)	Chlorodifluoromethane	2200	ng/L	400	5
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	Chloromethane(Methyl Chloride)	ND	ng/L	200	1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	1,2-Dichlorobenzene-d4	101	%		1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	1,4-Dichlorobenzene-d4	73	%		1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	1,4-Difluorobenzene	86	%		1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	4-Bromofluorobenzene	105	%		1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	Chlorobenzene-d5	82	%		1
4/1/2013	04/01/2013	21:17	700642	(EPA 524.3)	methyl-t-butyl ether-d3	97	%		1
FB::00102-102-Well 10 EP (201303270197)							**Sampled on 03/26/2013 0800**		
		UCMR 200.8 - UCMR3 Metals							
	03/29/2013	20:43	700628	(UCMR 200.8)	Chromium	ND	ug/L	0.2	1
	03/29/2013	20:43	700628	(UCMR 200.8)	Cobalt	ND	ug/L	1	1
	03/29/2013	20:43	700628	(UCMR 200.8)	Molybdenum	ND	ug/L	1	1
	03/29/2013	20:43	700628	(UCMR 200.8)	Strontium	ND	ug/L	0.3	1
	03/29/2013	20:43	700628	(UCMR 200.8)	Vanadium	ND	ug/L	0.2	1
	03/29/2013	20:43	700628	(UCMR 200.8)	Indium (115)	97	%		1
	03/29/2013	20:43	700628	(UCMR 200.8)	Scandium (45)	99	%		1
		EPA 524.3 - @UCMR3 524.3							
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	1,1-Dichloroethane	ND	ng/L	30	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	1,2,3-Trichloropropane	ND	ng/L	30	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	1,3-butadiene	ND	ng/L	100	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	Bromochloromethane	ND	ng/L	60	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	Bromomethane (Methyl Bromide)	ND	ng/L	200	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	Chlorodifluoromethane	ND	ng/L	80	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	Chloromethane(Methyl Chloride)	ND	ng/L	200	1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	1,2-Dichlorobenzene-d4	100	%		1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	1,4-Dichlorobenzene-d4	73	%		1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	1,4-Difluorobenzene	83	%		1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	4-Bromofluorobenzene	104	%		1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	Chlorobenzene-d5	81	%		1
4/2/2013	04/02/2013	15:01	700911	(EPA 524.3)	methyl-t-butyl ether-d3	93	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory
QC Summary: 429461

Perkasie Regional Authority

QC Ref # 700282 - UMCR3 Chlorate — **Analysis Date: 03/28/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: LUPE

QC Ref # 700481 - UCMR3 537 — **Analysis Date: 03/29/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: 1CL

QC Ref # 700628 - UCMR3 Metals — **Analysis Date: 03/29/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: DTN
201303270197	FB::00102-102-Well 10 EP	Analyzed by: DTN

QC Ref # 700642 - @UCMR3 524.3 — **Analysis Date: 04/01/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: MCB

QC Ref # 700679 - UCMR3 Hexavalent Chromium — **Analysis Date: 04/01/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: TLH

QC Ref # 700911 - @UCMR3 524.3 — **Analysis Date: 04/02/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: MCB
201303270197	FB::00102-102-Well 10 EP	Analyzed by: MCB

QC Ref # 701080 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 04/03/2013**

201303270196	00102-102-Well 10 EP	Analyzed by: CRW

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Laboratory QC
Report: 429461

Perkasie Regional Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 700282 - UMCR3 Chlorate by UCMR 300.1						**Analysis Date: 03/28/2013**			
CCCH	Chlorate		800	799	ug/L	100	(90-110)		
CCCL	Chlorate		20	18.2	ug/L	91	(75-125)		
CCCM	Chlorate		400	399	ug/L	100	(90-110)		
MBLK	Chlorate			<6.67	ug/L				
MRL_CHK	Chlorate		20	20.4	ug/L	102	(75-125)		
QCS	Chlorate		400	415	ug/L	104	(90-110)		
QCSD	Chlorate		400	413	ug/L	103	(90-110)	10	0.48
CCCH	DCA			96.9	%	97	(90-115)		
CCCL	DCA			100	%	100	(90-115)		
CCCM	DCA			98.1	%	98	(90-115)		
MBLK	DCA			101	%				
MRL_CHK	DCA			100	%	101	(90-115)		
MS1_201303270145	DCA	103		100	%	101	(90-115)		
MSD1_201303270145	DCA	103		99.8	%	100	(90-115)		
QCS	DCA			98.1	%	98	(90-115)		
QCSD	DCA			99.3	%	99	(90-115)		
QC Ref# 700481 - UCMR3 537 by EPA 537						**Analysis Date: 03/29/2013**			
CCCH	13C-PFDA - Surr#2 (S)			100	%	100	(70-130)		
CCCL	13C-PFDA - Surr#2 (S)			102	%	102	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			102	%	103	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			87.2	%	87	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			86.3	%	86	(70-130)		
MS2_201303270194	13C-PFDA - Surr#2 (S)			85.4	%	85	(70-130)		
MSD2_201303270194	13C-PFDA - Surr#2 (S)			82.5	%	82	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			95.3	%	95	(70-130)		
CCCH	13C-PFHxA - Surr#1 (S)			100	%	101	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			101	%	101	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			102	%	102	(70-130)		
MBLK_HI	13C-PFHxA - Surr#1 (S)			96.4	%	96	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			94.0	%	94	(70-130)		
MS2_201303270194	13C-PFHxA - Surr#1 (S)			92.1	%	92	(70-130)		
MSD2_201303270194	13C-PFHxA - Surr#1 (S)			91.6	%	92	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			94.6	%	95	(70-130)		
CCCH	13C-PFOA– IS#1 (I)			105	%	105	(50-150)		
CCCL	13C-PFOA– IS#1 (I)			98.3	%	98	(50-150)		
CCCM	13C-PFOA– IS#1 (I)			102	%	102	(50-150)		

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formerly MWH Laboratories

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Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 429461

Perkasie Regional Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK_HI	13C-PFOA– IS#1 (I)			104	%	104	(50-150)		
MRLHI	13C-PFOA– IS#1 (I)			106	%	107	(50-150)		
MS2_201303270194	13C-PFOA– IS#1 (I)			106	%	106	(50-150)		
MSD2_201303270194	13C-PFOA– IS#1 (I)			110	%	110	(50-150)		
QCS	13C-PFOA– IS#1 (I)			101	%	101	(50-150)		
CCCH	13C-PFOS– IS#2 (I)			105	%	105	(50-150)		
CCCL	13C-PFOS– IS#2 (I)			103	%	103	(50-150)		
CCCM	13C-PFOS– IS#2 (I)			103	%	103	(50-150)		
MBLK_HI	13C-PFOS– IS#2 (I)			104	%	104	(50-150)		
MRLHI	13C-PFOS– IS#2 (I)			103	%	103	(50-150)		
MS2_201303270194	13C-PFOS– IS#2 (I)			105	%	105	(50-150)		
MSD2_201303270194	13C-PFOS– IS#2 (I)			105	%	105	(50-150)		
QCS	13C-PFOS– IS#2 (I)			100	%	100	(50-150)		
CCCH	Perfluoro octanesulfonic acid - PFOS		0.13	0.121	ug/L	95	(70-130)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0303	ug/L	95	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0609	ug/L	95	(70-130)		
MBLK_HI	Perfluoro octanesulfonic acid - PFOS	ND		<0.01333	ug/L				
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0423	ug/L	106	(50-150)		
MS2_201303270194	Perfluoro octanesulfonic acid - PFOS	ND	0.08	0.0865	ug/L	108	(70-130)		
MSD2_201303270194	Perfluoro octanesulfonic acid - PFOS	ND	0.08	0.0850	ug/L	106	(70-130)	30	1.8
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0431	ug/L	90	(70-130)		
CCCH	Perfluoro-1-butanesulfonic acid -PFBS		0.29	0.298	ug/L	102	(70-130)		
CCCL	Perfluoro-1-butanesulfonic acid -PFBS		0.073	0.0749	ug/L	103	(50-150)		
CCCM	Perfluoro-1-butanesulfonic acid -PFBS		0.15	0.151	ug/L	104	(70-130)		
MBLK_HI	Perfluoro-1-butanesulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanesulfonic acid -PFBS		0.09	0.111	ug/L	123	(50-150)		
MS2_201303270194	Perfluoro-1-butanesulfonic acid -PFBS	ND	0.18	0.212	ug/L	117	(70-130)		
MSD2_201303270194	Perfluoro-1-butanesulfonic acid -PFBS	ND	0.18	0.217	ug/L	119	(70-130)	30	1.9
QCS	Perfluoro-1-butanesulfonic acid -PFBS		0.044	0.0448	ug/L	101	(70-130)		
CCCH	Perfluoro-1-hexanesulfonic acid - PFHxS		0.096	0.0925	ug/L	96	(70-130)		
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0247	ug/L	103	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0480	ug/L	100	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	ND		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0359	ug/L	120	(50-150)		
MS2_201303270194	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.06	0.0680	ug/L	112	(70-130)		
MSD2_201303270194	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.06	0.0702	ug/L	115	(70-130)	30	3.2
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0435	ug/L	91	(70-130)		
CCCH	Perfluoroheptanoic acid - PFHpA		0.032	0.0309	ug/L	97	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00816	ug/L	102	(50-150)		
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0156	ug/L	98	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.0108	ug/L	108	(50-150)		
MS2_201303270194	Perfluoroheptanoic acid - PFHpA	ND	0.02	0.0223	ug/L	111	(70-130)		
MSD2_201303270194	Perfluoroheptanoic acid - PFHpA	ND	0.02	0.0220	ug/L	110	(70-130)	30	0.90
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0506	ug/L	101	(70-130)		
CCCH	Perfluoro-n-nonanoic acid -PFNA		0.064	0.0613	ug/L	96	(70-130)		
CCCL	Perfluoro-n-nonanoic acid -PFNA		0.016	0.0161	ug/L	101	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0319	ug/L	100	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0220	ug/L	110	(50-150)		
MS2_201303270194	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0438	ug/L	109	(70-130)		
MSD2_201303270194	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0417	ug/L	104	(70-130)	30	4.9
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0425	ug/L	85	(70-130)		
CCCH	Perfluorooctanoic acid - PFOA		0.064	0.0636	ug/L	99	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0158	ug/L	99	(50-150)		
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0332	ug/L	104	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	ND		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0230	ug/L	115	(50-150)		
MS2_201303270194	Perfluorooctanoic acid - PFOA	ND	0.04	0.0446	ug/L	109	(70-130)		
MSD2_201303270194	Perfluorooctanoic acid - PFOA	ND	0.04	0.0446	ug/L	110	(70-130)	30	0.0
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0475	ug/L	95	(70-130)		
QC Ref# 700628 - UCMR3 Metals by UCMR 200.8						**Analysis Date: 03/29/2013**			
CCCH	Chromium		25	25.4	ug/L	102	(85-115)		
CCCL	Chromium		0.2	0.172	ug/L	86	(50-150)		
CCCM	Chromium		10	10.2	ug/L	102	(85-115)		
CCCH	Cobalt		25	25.1	ug/L	100	(85-115)		
CCCL	Cobalt		1.0	0.985	ug/L	99	(50-150)		
CCCM	Cobalt		10	10.2	ug/L	102	(85-115)		
CCCH	Indium (115)			102	%	102	(60-125)		
CCCL	Indium (115)			102	%	102	(60-125)		
CCCM	Indium (115)			99.3	%	99	(60-125)		
CCCH	Molybdenum		25	25.5	ug/L	102	(85-115)		
CCCL	Molybdenum		1.0	1.04	ug/L	104	(50-150)		
CCCM	Molybdenum		10	10.1	ug/L	101	(85-115)		
CCCH	Scandium (45)			107	%	107	(60-125)		
CCCL	Scandium (45)			104	%	104	(60-125)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Scandium (45)			102	%	102	(60-125)		
CCCH	Strontium		25	25.9	ug/L	104	(85-115)		
CCCL	Strontium		0.3	0.277	ug/L	92	(50-150)		
CCCM	Strontium		10	10.3	ug/L	103	(85-115)		
CCCH	Vanadium		25	25.5	ug/L	102	(85-115)		
CCCL	Vanadium		0.2	0.196	ug/L	98	(50-150)		
CCCM	Vanadium		10	10.2	ug/L	102	(85-115)		
QC Ref# 700642 - @UCMR3 524.3 by EPA 524.3						**Analysis Date: 04/01/2013**			
CCCH	1,1-Dichloroethane		800	832	ng/L	104	(70-130)		
CCCL	1,1-Dichloroethane		30	34.2	ng/L	114	(50-150)		
CCCM	1,1-Dichloroethane		400	392	ng/L	98	(70-130)		
MBLK	1,1-Dichloroethane			<15.0	ng/L				
MBLK	1,1-Dichloroethane			<15.0	ng/L				
MS_201303280273	1,1-Dichloroethane	ND	30	43.3	ng/L	144			
MSD_201303280273	1,1-Dichloroethane	ND	30	40.6	ng/L	135		20	6.4
CCCH	1,2,3-Trichloropropane		800	840	ng/L	105	(70-130)		
CCCL	1,2,3-Trichloropropane		30	31.5	ng/L	105	(50-150)		
CCCM	1,2,3-Trichloropropane		400	390	ng/L	98	(70-130)		
MBLK	1,2,3-Trichloropropane			<15.0	ng/L				
MBLK	1,2,3-Trichloropropane			<15.0	ng/L				
MS_201303280273	1,2,3-Trichloropropane	ND	30	35.8	ng/L	119			
MSD_201303280273	1,2,3-Trichloropropane	ND	30	34.8	ng/L	116		20	2.8
CCCH	1,2-Dichlorobenzene-d4			103	%	103	(70-130)		
CCCL	1,2-Dichlorobenzene-d4			101	%	101	(70-130)		
CCCM	1,2-Dichlorobenzene-d4			98.1	%	98	(70-130)		
MBLK	1,2-Dichlorobenzene-d4			98.8	%				
MBLK	1,2-Dichlorobenzene-d4			102	%				
MS_201303280273	1,2-Dichlorobenzene-d4	99		99.8	%	100	(70-130)		
MSD_201303280273	1,2-Dichlorobenzene-d4	99		97.5	%	97	(70-130)		
CCCH	1,3-butadiene		800	809	ng/L	101	(70-130)		
CCCL	1,3-butadiene		100	122	ng/L	122	(50-150)		
CCCM	1,3-butadiene		400	409	ng/L	102	(70-130)		
MBLK	1,3-butadiene			<50.0	ng/L				
MBLK	1,3-butadiene			<50.0	ng/L				
MS_201303280273	1,3-butadiene	ND	100	172	ng/L	159			
MSD_201303280273	1,3-butadiene	ND	100	157	ng/L	144		20	9.1
CCCH	1,4-Dichlorobenzene-d4			89.8	%	90	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	1,4-Dichlorobenzene-d4			87.6	%	88	(50-150)		
CCCM	1,4-Dichlorobenzene-d4			75.6	%	76	(50-150)		
MBLK	1,4-Dichlorobenzene-d4			79.1	%				
MBLK	1,4-Dichlorobenzene-d4			93.2	%				
MS_201303280273	1,4-Dichlorobenzene-d4	76		80.7	%	81	(50-150)		
MSD_201303280273	1,4-Dichlorobenzene-d4	76		81.3	%	81	(50-150)		
CCCH	1,4-Difluorobenzene			83.7	%	84	(50-150)		
CCCL	1,4-Difluorobenzene			94.6	%	95	(50-150)		
CCCM	1,4-Difluorobenzene			88.4	%	88	(50-150)		
MBLK	1,4-Difluorobenzene			85.4	%				
MBLK	1,4-Difluorobenzene			89.5	%				
MS_201303280273	1,4-Difluorobenzene	80		84.1	%	84	(50-150)		
MSD_201303280273	1,4-Difluorobenzene	80		86.1	%	86	(50-150)		
CCCH	4-Bromofluorobenzene			90.3	%	90	(70-130)		
CCCL	4-Bromofluorobenzene			103	%	103	(70-130)		
CCCM	4-Bromofluorobenzene			103	%	103	(70-130)		
MBLK	4-Bromofluorobenzene			93.9	%				
MBLK	4-Bromofluorobenzene			104	%				
MS_201303280273	4-Bromofluorobenzene	98		98.3	%	98	(70-130)		
MSD_201303280273	4-Bromofluorobenzene	98		97.8	%	98	(70-130)		
CCCH	Bromochloromethane		800	819	ng/L	102	(70-130)		
CCCL	Bromochloromethane		60	64.0	ng/L	107	(50-150)		
CCCM	Bromochloromethane		400	387	ng/L	97	(70-130)		
MBLK	Bromochloromethane			<30.0	ng/L				
MBLK	Bromochloromethane			<30.0	ng/L				
MS_201303280273	Bromochloromethane	ND	60	90.3	ng/L	112			
MSD_201303280273	Bromochloromethane	ND	60	89.8	ng/L	111		20	0.56
CCCH	Bromomethane (Methyl Bromide)		800	885	ng/L	111	(70-130)		
CCCL	Bromomethane (Methyl Bromide)		200	216	ng/L	108	(50-150)		
CCCM	Bromomethane (Methyl Bromide)		400	369	ng/L	92	(70-130)		
MBLK	Bromomethane (Methyl Bromide)			<100	ng/L				
MBLK	Bromomethane (Methyl Bromide)			<100	ng/L				
MS_201303280273	Bromomethane (Methyl Bromide)	ND	200	272	ng/L	136			
MSD_201303280273	Bromomethane (Methyl Bromide)	ND	200	272	ng/L	136		20	0.0
CCCH	Chlorobenzene-d5			84.0	%	84	(50-150)		
CCCL	Chlorobenzene-d5			93.1	%	93	(50-150)		
CCCM	Chlorobenzene-d5			84.5	%	85	(50-150)		
MBLK	Chlorobenzene-d5			88.6	%				

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MBLK	Chlorobenzene-d5			83.7	%				
MS_201303280273	Chlorobenzene-d5	78		84.2	%	84	(50-150)		
MSD_201303280273	Chlorobenzene-d5	78		84.9	%	85	(50-150)		
CCCH	Chlorodifluoromethane		800	814	ng/L	102	(70-130)		
CCCL	Chlorodifluoromethane		80	93.5	ng/L	117	(50-150)		
CCCM	Chlorodifluoromethane		400	391	ng/L	98	(70-130)		
MBLK	Chlorodifluoromethane			<40.0	ng/L				
MBLK	Chlorodifluoromethane			<40.0	ng/L				
MS_201303280273	Chlorodifluoromethane	ND	80	136	ng/L	162			
MSD_201303280273	Chlorodifluoromethane	ND	80	140	ng/L	167		20	2.2
CCCH	Chloromethane(Methyl Chloride)		800	837	ng/L	105	(70-130)		
CCCL	Chloromethane(Methyl Chloride)		200	196	ng/L	98	(50-150)		
CCCM	Chloromethane(Methyl Chloride)		400	366	ng/L	92	(70-130)		
MBLK	Chloromethane(Methyl Chloride)			<100	ng/L				
MBLK	Chloromethane(Methyl Chloride)			<100	ng/L				
_201303280273	Chloromethane(Methyl Chloride)	ND	200	249	ng/L	120			
MSD_201303280273	Chloromethane(Methyl Chloride)	ND	200	242	ng/L	117		20	2.9
CCCH	methyl-t-butyl ether-d3			95.6	%	96	(70-130)		
CCCL	methyl-t-butyl ether-d3			97.4	%	97	(70-130)		
CCCM	methyl-t-butyl ether-d3			96.3	%	96	(70-130)		
MBLK	methyl-t-butyl ether-d3			97.5	%				
MBLK	methyl-t-butyl ether-d3			95.1	%				
MS_201303280273	methyl-t-butyl ether-d3	99		105	%	105	(70-130)		
MSD_201303280273	methyl-t-butyl ether-d3	99		100	%	100	(70-130)		
QC Ref# 700679 - UCMR3 Hexavalent Chromium by EPA 218.7						**Analysis Date: 04/01/2013**			
CCCH	Hexavalent Chromium (Dissolved)		20	20.5	ug/L	103	(85-115)		
CCCL	Hexavalent Chromium (Dissolved)		0.02	0.0234	ug/L	117	(50-150)		
CCCM	Hexavalent Chromium (Dissolved)		10	10.2	ug/L	102	(85-115)		
MBLK	Hexavalent Chromium (Dissolved)			<0.0067	ug/L				
MS2_201303260168	Hexavalent Chromium (Dissolved)	ND	0.02	0.0421	ug/L	93	(50-150)		
MSD2_201303260168	Hexavalent Chromium (Dissolved)	ND	0.02	0.0384	ug/L	75	(50-150)	50	9.2
QCS	Hexavalent Chromium (Dissolved)		10	10.3	ug/L	103	(90-110)		
QCSD	Hexavalent Chromium (Dissolved)		10	10.2	ug/L	102	(90-110)	15	0.98
QC Ref# 700911 - @UCMR3 524.3 by EPA 524.3						**Analysis Date: 04/02/2013**			
CCCH	1,1-Dichloroethane		800	794	ng/L	99	(70-130)		
CCCL	1,1-Dichloroethane		30	32.2	ng/L	107	(50-150)		
CCCM	1,1-Dichloroethane		400	392	ng/L	98	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
ria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
not calculated for LCS2 when different a concentration than LCS1 is used.
D not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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(I) - Indicates internal standard compound.

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Perkasie Regional Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,1-Dichloroethane			<15.0	ng/L				
MBLK	1,1-Dichloroethane			<15.0	ng/L				
MS1_201303270194	1,1-Dichloroethane	ND	400	463	ng/L	116			
MSD1_201303270194	1,1-Dichloroethane	ND	400	460	ng/L	115		20	0.65
CCCH	1,2,3-Trichloropropane		800	813	ng/L	102	(70-130)		
CCCL	1,2,3-Trichloropropane		30	35.4	ng/L	118	(50-150)		
CCCM	1,2,3-Trichloropropane		400	378	ng/L	95	(70-130)		
MBLK	1,2,3-Trichloropropane			<15.0	ng/L				
MBLK	1,2,3-Trichloropropane			<15.0	ng/L				
MS1_201303270194	1,2,3-Trichloropropane	ND	400	415	ng/L	104			
MSD1_201303270194	1,2,3-Trichloropropane	ND	400	433	ng/L	108		20	4.3
CCCH	1,2-Dichlorobenzene-d4			100	%	100	(70-130)		
CCCL	1,2-Dichlorobenzene-d4			102	%	102	(70-130)		
CCCM	1,2-Dichlorobenzene-d4			101	%	101	(70-130)		
MBLK	1,2-Dichlorobenzene-d4			104	%				
MBLK	1,2-Dichlorobenzene-d4			101	%				
MS1_201303270194	1,2-Dichlorobenzene-d4	100		99.4	%	99	(70-130)		
MSD1_201303270194	1,2-Dichlorobenzene-d4	100		101	%	101	(70-130)		
CCCH	1,3-butadiene		800	727	ng/L	91	(70-130)		
CCCL	1,3-butadiene		100	91.6	ng/L	92	(50-150)		
CCCM	1,3-butadiene		400	410	ng/L	102	(70-130)		
MBLK	1,3-butadiene			<50.0	ng/L				
MBLK	1,3-butadiene			<50.0	ng/L				
MS1_201303270194	1,3-butadiene	ND	400	515	ng/L	128			
MSD1_201303270194	1,3-butadiene	ND	400	501	ng/L	125		20	2.8
CCCH	1,4-Dichlorobenzene-d4			71.8	%	72	(50-150)		
CCCL	1,4-Dichlorobenzene-d4			91.1	%	91	(50-150)		
CCCM	1,4-Dichlorobenzene-d4			74.9	%	75	(50-150)		
MBLK	1,4-Dichlorobenzene-d4			80.9	%				
MBLK	1,4-Dichlorobenzene-d4			87.3	%				
MS1_201303270194	1,4-Dichlorobenzene-d4	82		75.4	%	75	(50-150)		
MSD1_201303270194	1,4-Dichlorobenzene-d4	82		90.2	%	90	(50-150)		
CCCH	1,4-Difluorobenzene			82.1	%	82	(50-150)		
CCCL	1,4-Difluorobenzene			89.8	%	90	(50-150)		
CCCM	1,4-Difluorobenzene			86.0	%	86	(50-150)		
MBLK	1,4-Difluorobenzene			83.8	%				
MBLK	1,4-Difluorobenzene			86.6	%				
MS1_201303270194	1,4-Difluorobenzene	90		85.6	%	86	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201303270194	1,4-Difluorobenzene	90		85.8	%	86	(50-150)		
CCCH	4-Bromofluorobenzene			100	%	100	(70-130)		
CCCL	4-Bromofluorobenzene			93.3	%	93	(70-130)		
CCCM	4-Bromofluorobenzene			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene			95.4	%				
MBLK	4-Bromofluorobenzene			93.8	%				
MS1_201303270194	4-Bromofluorobenzene	99		102	%	102	(70-130)		
MSD1_201303270194	4-Bromofluorobenzene	99		92.5	%	93	(70-130)		
CCCH	Bromochloromethane		800	831	ng/L	104	(70-130)		
CCCL	Bromochloromethane		60	63.2	ng/L	105	(50-150)		
CCCM	Bromochloromethane		400	400	ng/L	100	(70-130)		
MBLK	Bromochloromethane			<30.0	ng/L				
MBLK	Bromochloromethane			<30.0	ng/L				
MS1_201303270194	Bromochloromethane	ND	400	444	ng/L	111			
MSD1_201303270194	Bromochloromethane	ND	400	455	ng/L	114		20	2.5
CCCH	Bromomethane (Methyl Bromide)		800	749	ng/L	94	(70-130)		
CCCL	Bromomethane (Methyl Bromide)		200	210	ng/L	105	(50-150)		
CCCM	Bromomethane (Methyl Bromide)		400	397	ng/L	99	(70-130)		
MBLK	Bromomethane (Methyl Bromide)			<100	ng/L				
MBLK	Bromomethane (Methyl Bromide)			<100	ng/L				
MS1_201303270194	Bromomethane (Methyl Bromide)	ND	400	462	ng/L	114			
MSD1_201303270194	Bromomethane (Methyl Bromide)	ND	400	541	ng/L	134		20	16
CCCH	Chlorobenzene-d5			79.5	%	80	(50-150)		
CCCL	Chlorobenzene-d5			86.8	%	87	(50-150)		
CCCM	Chlorobenzene-d5			83.2	%	83	(50-150)		
MBLK	Chlorobenzene-d5			82.4	%				
MBLK	Chlorobenzene-d5			86.4	%				
MS1_201303270194	Chlorobenzene-d5	86		83.1	%	83	(50-150)		
MSD1_201303270194	Chlorobenzene-d5	86		85.5	%	86	(50-150)		
CCCH	Chlorodifluoromethane		800	686	ng/L	86	(70-130)		
CCCL	Chlorodifluoromethane		80	79.5	ng/L	99	(50-150)		
CCCM	Chlorodifluoromethane		400	388	ng/L	97	(70-130)		
MBLK	Chlorodifluoromethane			<40.0	ng/L				
MBLK	Chlorodifluoromethane			<40.0	ng/L				
MS1_201303270194	Chlorodifluoromethane	ND	400	506	ng/L	125			
MSD1_201303270194	Chlorodifluoromethane	ND	400	511	ng/L	126		20	0.98
CCCH	Chloromethane(Methyl Chloride)		800	724	ng/L	91	(70-130)		
CCCL	Chloromethane(Methyl Chloride)		200	148	ng/L	74	(50-150)		

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Perkasie Regional Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Chloromethane(Methyl Chloride)		400	376	ng/L	94	(70-130)		
MBLK	Chloromethane(Methyl Chloride)			<100	ng/L				
MBLK	Chloromethane(Methyl Chloride)			<100	ng/L				
MS1_201303270194	Chloromethane(Methyl Chloride)	ND	400	490	ng/L	123			
MSD1_201303270194	Chloromethane(Methyl Chloride)	ND	400	508	ng/L	127		20	3.4
CCCH	methyl-t-butyl ether-d3			94.0	%	94	(70-130)		
CCCL	methyl-t-butyl ether-d3			95.1	%	95	(70-130)		
CCCM	methyl-t-butyl ether-d3			93.2	%	93	(70-130)		
MBLK	methyl-t-butyl ether-d3			91.9	%				
MBLK	methyl-t-butyl ether-d3			96.4	%				
MS1_201303270194	methyl-t-butyl ether-d3	96		92.3	%	92	(70-130)		
MSD1_201303270194	methyl-t-butyl ether-d3	96		94.1	%	94	(70-130)		
QC Ref# 701080 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 04/03/2013**			
CCCH	1,4-Dioxane		50	54.7	ug/L	109	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0860	ug/L	123	(50-150)		
CCCM	1,4-Dioxane		20	22.4	ug/L	112	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0810	ug/L	116	(50-150)		
MS1_201303200374	1,4-Dioxane	0.270	0.07	0.347	ug/L	110	(50-150)		
MSD1_201303200374	1,4-Dioxane	0.270	0.07	0.360	ug/L	129	(50-150)	20	3.7
CCCH	Dioxane-d8			108	%	109	(70-130)		
CCCL	Dioxane-d8			114	%	114	(70-130)		
CCCM	Dioxane-d8			117	%	117	(70-130)		
MBLK	Dioxane-d8			108	%				
MRL_CHK	Dioxane-d8			110	%	110	(70-130)		
MS1_201303200374	Dioxane-d8	120		116	%	116	(70-130)		
MSD1_201303200374	Dioxane-d8	120		119	%	119	(70-130)		
CCCH	THF-d8			94.3	%	94	(50-150)		
CCCL	THF-d8			92.4	%	92	(50-150)		
CCCM	THF-d8			79.5	%	80	(50-150)		
MBLK	THF-d8			71.9	%				
MRL_CHK	THF-d8			70.2	%	70	(50-150)		
MS1_201303200374	THF-d8	72		71.7	%	72	(50-150)		
MSD1_201303200374	THF-d8	72		78.7	%	79	(50-150)		

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Laboratory Report

for

Perkasie Regional Authority
P.O. Box 159
Perkasie, PA 18944-0159
Attention: Gary J. Winton

Date of Issue
10/14/2013
EUROFINS EATON
ANALYTICAL

FWH: Fred Haley
Project Manager

01114CA

Report: 450761
Project: UCMR3
Group: PA1090046/Perkasie Borough Authority

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2012-1
California – NELAP	01114CA	**New Hampshire**	2959
California – ELAP	2813	**New Jersey**	CA 008
Los Angeles County Sanitation Districts	10264	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-011
Georgia	947	**Pennsylvania**	68-565
Guam	12-006r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-13-5
Kansas	E-10268	**Utah**	CA000062013
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA130008	**Virginia**	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

NELAP/TNI Recognized Accreditation Bodies - in 'BLUE'

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Acknowledgement of Samples Received

Addr: **Perkasie Regional Authority**
P.O. Box 159
Perkasie, PA 18944-0159

Attn: Gary J. Winton
Phone: 215-257-3654

Client ID: PERKASIE-PA
Folder #: 450761
Project: UCMR3
Sample Group: PA1090046/Perkasie Borough Authority
Project Manager: Fred Haley
Phone: (626) 386-1127

The following samples were received from you on **September 25, 2013**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201309250047	00102-102-Well 10 EP			09/24/2013 0931
	Sample Type: EP Sample Event: SE2 Facility ID: 00102 Sample Point ID: 102 PWSID: PA1090046			
	@UCMR3 200.8	@UCMR3 218.7	@UCMR3 522 C	
	@UCMR3 524.3	@UCMR3 537	@UCMR3 Chlorate	
201309250048	FB::00102-102-Well 10 EP			09/24/2013 0800
	@UCMR3 200.8 FB	@UCMR3 524.3 TB	@UCMR3 537 FB	

Test Description

@UCMR3 200.8 -- UCMR3 Metals

@UCMR3 200.8 FB -- UCMR3 Metals

@UCMR3 218.7 -- UCMR3 Hexavalent Chromium

@UCMR3 522 C -- UCMR3 1,4-Dioxane by EPA 522

@UCMR3 524.3 -- @UCMR3 524.3

@UCMR3 524.3 TB -- @UCMR3 524.3

@UCMR3 537 -- UCMR3 537

@UCMR3 537 FB -- UCMR3 537

@UCMR3 Chlorate -- UMCR3 Chlorate

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450761

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UCMR3 CHAIN OF CUSTODY RECORD

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Phone: 626 386 1100/ 800 566 LABS (800 566 5227)
Fax: 626 386 1101
Website: www.EatonAnalytical.com

PWSID: PA1090046
Example: (CA1234567)

EUROFINS EATON ANALYTICAL USE ONLY:

Folder No:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: MD

SAMPLES LOGGED IN BY:

SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

SAMPLE TEMP RECEIVED AT:
[ ] Colton / No. California / Arizona _____ °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)
[✓] Monrovia 4.2 °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen ✓ Thawed _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Perkasie Borough Authority

PROJECT CODE: UCMR3

EEA CLIENT CODE: Perkasie, PA.

COC ID:

SAMPLE GROUP: Perkasie Borough Authority

TAT requested: rush by adv notice only STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

(check for yes)
COMPLIANCE SAMPLES [ ]
- Requires upload to EPA database [ ]
Regulation: UCMR3
OTE: we MUST have PWSID#, Facility ID, Sample Point ID, and Sample Type to be able to upload data to EPA Databas

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes), *OR*
list ANALYSES REQUIRED (Mark "X" in all test required for each sample line)

SAMPLE DATE	SAMPLE TIME	FACILITY ID (per EPA Requirement) - 5 characters Max	UNIQUE FIELD SAMPLE ID (per EPA Requirement) - 20 characters max	WATER SOURCE TYPE (1)	SAMPLE EVENT # (2)	SAMPLE POINT TYPE ID (3)	DISINFECTANT TYPE (4)	UCMR3 200.8	UCMR3 200.8 - FB *	UCMR3 218.7	UCMR3 522	UCMR3 524.3	UCMR3 524.3 - TB *	UCMR3 537	UCMR3 537 - FB *	UCMR3 539	UCMR3 539 - FB *	UCMR3 Chlorate	UCMR3 537 TB			SAMPLER COMMENTS
2013 9-24	9:31	00102	102	GW	SE2	EP	CLON	1	1	1	3	4	2	3	1			1	1			Well 10
											1 of 3			REC		HALF		EMPTY				

(1) **Water Source Type:** **SW:** Surface Water **GW:** Ground Water **GU:** Ground Water under the direct influence of SW **MX:** Any Combination of previous three water types

(2) **Sample Event Code:** **SE1** (first) **SE2** (second) **SE3** (third) **SE4** (fourth)

(3) **Sampling Point Type ID:** **EP:** Entry Point to the distribution system **MR:** Distribution System sample at maximum residence time

(4) **Disinfectant Type:** **CLGA:** Gaseous Chlorine **CLOF:** Offsite Generated Hypochlorite (stored as liquid form) **CLON:** Onsite Generated Hypochlorite (no storage) **CAGC:** Chloramine (formed from gaseous chlorine) **CAOF:** Chloroamine (formed from offsite hypochlorite) **CAON:** Chloroamine (formed from onsite hypochlorite) **CLDO:** Chlorine Dioxide **OZON:** Ozone **ULVL:** Ultraviolet Light **OTHD:** All Other Types of Disinfectant **NODU:** No Disinfectant Used

* Field Blank (FB) or Trip Blank (TB) are analyzed only when associated samples have positive results (>MRL)

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
SAMPLED BY:	Stefan Green	Stefan Green	Perkasie Borough Auth.	9-24-13	9:31
RELINQUISHED BY:					12:40
RECEIVED BY:	Tim Miller	Tim Miller	Lancaster Lab	09-24-13	1415
RELINQUISHED BY:	Tim Miller	Tim Miller	Lancaster Lab	09-24-13	1620
RECEIVED BY:	M. Der Nasarian		EDZ	9-25-13	0935

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Laboratory Comments
Report: 450761

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

The Comments Report may be blank if there are no comments for this report.

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UCMR Field Blank
Report: 450761

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
09/25/2013

The results section will be blank if there are no exceedances of UCMR3 Field Blank criteria. Field Blank Evaluation is required for positive detection in the associated sample for Metals by 200.8, VOCs by 524.3, PFCs by 537, and Hormones by 539 (SS monitoring only). A detection on this report indicates need for re-sample for the associated site and test. Reference: UCMR3 Laboratory Approval Requirements and Information Document V2, May 2012 section 8.1 Field Blanks.

UCMR3 Field Blanks are not required to be analyzed, if the target analytes are not detected in the associated samples. In that event, the Field Blank data are not available (NA) for reporting.

Results Section

Analyzed	Analyte	Sample ID	Result	Units	UCMR Limit

SUMMARY OF POSITIVE DATA ONLY

Method	Method description	Positive Data Limit = UCMR Limit
@UCMR3 200.8 FB	Metals	Any detection Greater than 1/3
@UCMR3 524.3 TB	Volatiles	MRL
@UCMR3 537 FB	Perfluorinated	Any detection Greater than 1/3
@UCMR3 539 FB	Hormones	MRL

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Laboratory Hits
Report: 450761

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
09/25/2013

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201309250047	**00102-102-Well 10 EP**				
10/03/2013 14:35	1,4-Dioxane		0.622		ug/L	0.07
10/02/2013 01:09	Chlorate		51		ug/L	20
09/26/2013 14:22	Chromium		0.97		ug/L	0.2
10/06/2013 16:18	Hexavalent Chromium (Dissolved)		1.0		ug/L	0.03
09/26/2013 14:22	Molybdenum		14		ug/L	1
09/26/2013 14:22	Strontium		3600		ug/L	0.3
09/26/2013 14:22	Vanadium		0.87		ug/L	0.2

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 450761

Perkasie Regional Authority
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P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
09/25/2013

00102-102-Well 10 EP (201309250047) **Sampled on 09/24/2013 0931**

Sample Type: EP
Sample Event: SE2
Facility ID: 00102
Sample Point ID: 102
PWSID: PA1090046

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
			UCMR 200.8 - UCMR3 Metals					
	09/26/2013 14:22	728984	(UCMR 200.8)	Chromium	0.97	ug/L	0.2	1
	09/26/2013 14:22	728984	(UCMR 200.8)	Cobalt	ND	ug/L	1	1
	09/26/2013 14:22	728984	(UCMR 200.8)	Molybdenum	14	ug/L	1	1
	09/26/2013 14:22	728984	(UCMR 200.8)	Strontium	3600	ug/L	0.3	1
	09/26/2013 14:22	728984	(UCMR 200.8)	Vanadium	0.87	ug/L	0.2	1
	09/26/2013 14:22	728984	(UCMR 200.8)	Indium (115)	95	%		1
	09/26/2013 14:22	728984	(UCMR 200.8)	Scandium (45)	105	%		1
			EPA 522 - UCMR3 1,4-Dioxane by EPA 522					
9/30/2013	10/03/2013 14:35	730398	(EPA 522)	1,4-Dioxane	0.622	ug/L	0.07	1
9/30/2013	10/03/2013 14:35	730398	(EPA 522)	Dioxane-d8	91	%		1
9/30/2013	10/03/2013 14:35	730398	(EPA 522)	THF-d8	115	%		1
			UCMR 300.1 - UMCR3 Chlorate					
	10/02/2013 01:09	729751	(UCMR 300.1)	Chlorate	51	ug/L	20	1
	10/02/2013 01:09	729751	(UCMR 300.1)	DCA	101	%		1
			EPA 218.7 - UCMR3 Hexavalent Chromium					
	10/06/2013 16:18	730645	(EPA 218.7)	Hexavalent Chromium (Dissolved)	1.0	ug/L	0.03	1
			EPA 537 - UCMR3 537					
	09/30/2013 17:37	729286	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	ND	ug/L	0.04	1
	09/30/2013 17:37	729286	(EPA 537)	Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
	09/30/2013 17:37	729286	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	ug/L	0.03	1
	09/30/2013 17:37	729286	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
	09/30/2013 17:37	729286	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
	09/30/2013 17:37	729286	(EPA 537)	Perfluorooctanoic acid - PFOA	ND	ug/L	0.02	1
	09/30/2013 17:37	729286	(EPA 537)	13C-PFDA - Surr#2	95	%		1
	09/30/2013 17:37	729286	(EPA 537)	13C-PFHxA - Surr#1	105	%		1
	09/30/2013 17:37	729286	(EPA 537)	13C-PFOA– IS#1	98	%		1
	09/30/2013 17:37	729286	(EPA 537)	13C-PFOS– IS#2	99	%		1
			EPA 524.3 - @UCMR3 524.3					
9/26/2013	09/27/2013 01:14	729284	(EPA 524.3)	1,1-Dichloroethane	ND	ng/L	30	1
9/26/2013	09/27/2013 01:14	729284	(EPA 524.3)	1,2,3-Trichloropropane	ND	ng/L	30	1
9/26/2013	09/27/2013 01:14	729284	(EPA 524.3)	1,3-butadiene	ND	ng/L	100	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 450761

Perkasie Regional Authority
Gary J. Winton
P.O. Box 159
Perkasie, PA 18944-0159

Samples Received on:
09/25/2013

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	Bromochloromethane	ND	ng/L	60	1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	Bromomethane (Methyl Bromide)	ND	ng/L	200	1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	Chlorodifluoromethane	ND	ng/L	80	1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	Chloromethane(Methyl Chloride)	ND	ng/L	200	1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	1,2-Dichlorobenzene-d4	106	%		1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	1,4-Dichlorobenzene-d4	71	%		1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	1,4-Difluorobenzene	77	%		1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	4-Bromofluorobenzene	105	%		1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	Chlorobenzene-d5	79	%		1
9/26/2013	09/27/2013	01:14	729284	(EPA 524.3)	methyl-t-butyl ether-d3	105	%		1

FB::00102-102-Well 10 EP (201309250048) **Sampled on 09/24/2013 0800**

UCMR 200.8 - UCMR3 Metals

	09/26/2013	13:03	728984	(UCMR 200.8)	Chromium	ND	ug/L	0.2	1
	09/26/2013	13:03	728984	(UCMR 200.8)	Cobalt	ND	ug/L	1	1
	09/26/2013	13:03	728984	(UCMR 200.8)	Molybdenum	ND	ug/L	1	1
	09/26/2013	13:03	728984	(UCMR 200.8)	Strontium	ND	ug/L	0.3	1
	09/26/2013	13:03	728984	(UCMR 200.8)	Vanadium	ND	ug/L	0.2	1
	09/26/2013	13:03	728984	(UCMR 200.8)	Indium (115)	95	%		1
	09/26/2013	13:03	728984	(UCMR 200.8)	Scandium (45)	97	%		1

...nding on totals after summation.
(c) - indicates calculated results

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QC Ref # 728984 - UCMR3 Metals — **Analysis Date: 09/26/2013**

201309250047	00102-102-Well 10 EP	Analyzed by: DTN
201309250048	FB::00102-102-Well 10 EP	Analyzed by: DTN

QC Ref # 729284 - @UCMR3 524.3 — **Analysis Date: 09/27/2013**

201309250047	00102-102-Well 10 EP	Analyzed by: MCB

QC Ref # 729286 - UCMR3 537 — **Analysis Date: 09/30/2013**

201309250047	00102-102-Well 10 EP	Analyzed by: LHZ

QC Ref # 729751 - UMCR3 Chlorate — **Analysis Date: 10/02/2013**

201309250047	00102-102-Well 10 EP	Analyzed by: LUPE

QC Ref # 730398 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 10/03/2013**

201309250047	00102-102-Well 10 EP	Analyzed by: CRW

QC Ref # 730645 - UCMR3 Hexavalent Chromium — **Analysis Date: 10/06/2013**

201309250047	00102-102-Well 10 EP	Analyzed by: TLH

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 728984 - UCMR3 Metals by UCMR 200.8						**Analysis Date: 09/26/2013**			
CCCH	Chromium		25	24.8	ug/L	99	(85-115)		
CCCL	Chromium		0.2	0.256	ug/L	128	(50-150)		
CCCM	Chromium		10	9.90	ug/L	99	(85-115)		
LCS1	Chromium		10	10.6	ug/L	106	(85-115)		
LCS2	Chromium		10	11.0	ug/L	111	(85-115)	20	4.6
MBLK	Chromium			<0.2	ug/L				
MRL_CHK	Chromium		0.2	0.278	ug/L	139	(50-150)		
MS_201309240350	Chromium	ND	10	9.68	ug/L	96	(70-130)		
MSD_201309240350	Chromium	ND	10	9.89	ug/L	98	(70-130)	20	2.1
CCCH	Cobalt		25	24.6	ug/L	98	(85-115)		
CCCL	Cobalt		1.0	1.08	ug/L	108	(50-150)		
CCCM	Cobalt		10	9.85	ug/L	99	(85-115)		
LCS1	Cobalt		10	10.5	ug/L	105	(85-115)		
LCS2	Cobalt		10	11.0	ug/L	110	(85-115)	20	4.7
MBLK	Cobalt			<1	ug/L				
MRL_CHK	Cobalt		1.0	1.22	ug/L	122	(50-150)		
MS_201309240350	Cobalt	ND	10	9.36	ug/L	91	(70-130)		
MSD_201309240350	Cobalt	ND	10	9.67	ug/L	95	(70-130)	20	3.3
CCCH	Indium (115)			105	%	105	(60-125)		
CCCL	Indium (115)			96.6	%	97	(60-125)		
CCCM	Indium (115)			102	%	102	(60-125)		
LCS1	Indium (115)			93.7	%	94	(60-125)		
LCS2	Indium (115)			88.4	%	88	(60-125)		
MBLK	Indium (115)			90.6	%				
MRL_CHK	Indium (115)		100	98.3	%		(60-125)		
MS_201309240350	Indium (115)	82		82.9	%	83	(60-125)		
MSD_201309240350	Indium (115)	82		81.6	%	82	(60-125)		
CCCH	Molybdenum		25	25.1	ug/L	100	(85-115)		
CCCL	Molybdenum		1.0	1.40	ug/L	140	(50-150)		
CCCM	Molybdenum		10	10.0	ug/L	100	(85-115)		
LCS1	Molybdenum		10	10.7	ug/L	107	(85-115)		
LCS2	Molybdenum		10	11.3	ug/L	113	(85-115)	20	5.5
MBLK	Molybdenum			<1	ug/L				
MRL_CHK	Molybdenum		1.0	1.24	ug/L	124	(50-150)		
MS_201309240350	Molybdenum	2.8	10	14.1	ug/L	113	(70-130)		
MSD_201309240350	Molybdenum	2.8	10	14.6	ug/L	117	(70-130)	20	3.5

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
not calculated for LCS2 when different a concentration than LCS1 is used.
not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Scandium (45)			106	%	106	(60-125)		
CCCL	Scandium (45)			95.8	%	96	(60-125)		
CCCM	Scandium (45)			104	%	104	(60-125)		
LCS1	Scandium (45)			91.8	%	92	(60-125)		
LCS2	Scandium (45)			87.7	%	88	(60-125)		
MBLK	Scandium (45)			89.9	%				
MRL_CHK	Scandium (45)		100	97.2	%		(60-125)		
MS_201309240350	Scandium (45)	92		94.6	%	95	(60-125)		
MSD_201309240350	Scandium (45)	92		93.5	%	93	(60-125)		
CCCH	Strontium		25	25.3	ug/L	101	(85-115)		
CCCL	Strontium		0.3	0.351	ug/L	117	(50-150)		
CCCM	Strontium		10	9.95	ug/L	100	(85-115)		
LCS1	Strontium		10	10.1	ug/L	101	(85-115)		
LCS2	Strontium		10	10.7	ug/L	107	(85-115)	20	5.8
MBLK	Strontium			<0.3	ug/L				
MRL_CHK	Strontium		0.3	0.367	ug/L	122	(50-150)		
MS_201309240350	Strontium	180	10	192	ug/L	104	(70-130)		
MSD_201309240350	Strontium	180	10	198	ug/L	170	(70-130)	20	3.1
CCCH	Vanadium		25	24.9	ug/L	100	(85-115)		
CCCL	Vanadium		0.2	0.255	ug/L	127	(50-150)		
CCCM	Vanadium		10	9.93	ug/L	99	(85-115)		
LCS1	Vanadium		10	10.6	ug/L	106	(85-115)		
LCS2	Vanadium		10	11.1	ug/L	111	(85-115)	20	4.6
MBLK	Vanadium			<0.2	ug/L				
MRL_CHK	Vanadium		0.2	0.260	ug/L	130	(50-150)		
MS_201309240350	Vanadium	0.38	10	10.6	ug/L	102	(70-130)		
MSD_201309240350	Vanadium	0.38	10	10.9	ug/L	105	(70-130)	20	2.8
QC Ref# 729284 - @UCMR3 524.3 by EPA 524.3						**Analysis Date: 09/26/2013**			
CCCL	1,1-Dichloroethane		30	23.9	ng/L	80	(50-150)		
CCCM	1,1-Dichloroethane		400	415	ng/L	104	(70-130)		
MBLK	1,1-Dichloroethane			<15.0	ng/L				
MS_201309270323	1,1-Dichloroethane	ND	30	30.3	ng/L	101			
MSD_201309270323	1,1-Dichloroethane	ND	30	28.3	ng/L	94		20	6.8
CCCL	1,2,3-Trichloropropane		30	32.6	ng/L	109	(50-150)		
CCCM	1,2,3-Trichloropropane		400	420	ng/L	105	(70-130)		
MBLK	1,2,3-Trichloropropane			<15.0	ng/L				
MS_201309270323	1,2,3-Trichloropropane	ND	30	32.1	ng/L	107			
MSD_201309270323	1,2,3-Trichloropropane	ND	30	29.2	ng/L	97		20	9.5

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 450761

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	1,2-Dichlorobenzene-d4			103	%	103	(70-130)		
CCCM	1,2-Dichlorobenzene-d4			100	%	100	(70-130)		
MBLK	1,2-Dichlorobenzene-d4			104	%				
MS_201309270323	1,2-Dichlorobenzene-d4	103		104	%	104	(70-130)		
MSD_201309270323	1,2-Dichlorobenzene-d4	103		103	%	103	(70-130)		
CCCL	1,3-butadiene		100	85.7	ng/L	86	(50-150)		
CCCM	1,3-butadiene		400	429	ng/L	107	(70-130)		
MBLK	1,3-butadiene			<50.0	ng/L				
MS_201309270323	1,3-butadiene	ND	100	112	ng/L	112			
MSD_201309270323	1,3-butadiene	ND	100	102	ng/L	102		20	9.3
CCCL	1,4-Dichlorobenzene-d4			70.9	%	71	(50-150)		
CCCM	1,4-Dichlorobenzene-d4			83.4	%	83	(50-150)		
MBLK	1,4-Dichlorobenzene-d4			72.3	%				
MS_201309270323	1,4-Dichlorobenzene-d4	72		73.5	%	74	(50-150)		
MSD_201309270323	1,4-Dichlorobenzene-d4	72		72.5	%	73	(50-150)		
CCCL	1,4-Difluorobenzene			77.0	%	77	(50-150)		
CCCM	1,4-Difluorobenzene			77.1	%	77	(50-150)		
MBLK	1,4-Difluorobenzene			78.5	%				
MS_201309270323	1,4-Difluorobenzene	77		78.8	%	79	(50-150)		
MSD_201309270323	1,4-Difluorobenzene	77		76.5	%	77	(50-150)		
CCCL	4-Bromofluorobenzene			102	%	102	(70-130)		
CCCM	4-Bromofluorobenzene			97.2	%	97	(70-130)		
MBLK	4-Bromofluorobenzene			103	%				
MS_201309270323	4-Bromofluorobenzene	101		104	%	104	(70-130)		
MSD_201309270323	4-Bromofluorobenzene	101		102	%	102	(70-130)		
CCCL	Bromochloromethane		60	41.0	ng/L	68	(50-150)		
CCCM	Bromochloromethane		400	428	ng/L	107	(70-130)		
MBLK	Bromochloromethane			<30.0	ng/L				
MS_201309270323	Bromochloromethane	ND	60	43.7	ng/L	73			
MSD_201309270323	Bromochloromethane	ND	60	45.5	ng/L	76		20	4.0
CCCL	Bromomethane (Methyl Bromide)		200	159	ng/L	80	(50-150)		
CCCM	Bromomethane (Methyl Bromide)		400	323	ng/L	81	(70-130)		
MBLK	Bromomethane (Methyl Bromide)			<100	ng/L				
MS_201309270323	Bromomethane (Methyl Bromide)	ND	200	207	ng/L	104			
MSD_201309270323	Bromomethane (Methyl Bromide)	ND	200	188	ng/L	94		20	9.6
CCCL	Chlorobenzene-d5			77.3	%	77	(50-150)		
CCCM	Chlorobenzene-d5			78.6	%	79	(50-150)		
MBLK	Chlorobenzene-d5			79.9	%				

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750 Royal Oaks Drive, Suite 100
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201309270323	Chlorobenzene-d5	78		79.6	%	80	(50-150)		
MSD_201309270323	Chlorobenzene-d5	78		78.8	%	79	(50-150)		
CCCL	Chlorodifluoromethane		80	71.6	ng/L	90	(50-150)		
CCCM	Chlorodifluoromethane		400	432	ng/L	108	(70-130)		
MBLK	Chlorodifluoromethane			<40.0	ng/L				
MS_201309270323	Chlorodifluoromethane	ND	80	90.3	ng/L	113			
MSD_201309270323	Chlorodifluoromethane	ND	80	83.9	ng/L	105		20	7.3
CCCL	Chloromethane(Methyl Chloride)		200	217	ng/L	108	(50-150)		
CCCM	Chloromethane(Methyl Chloride)		400	431	ng/L	108	(70-130)		
MBLK	Chloromethane(Methyl Chloride)			<100	ng/L				
MS_201309270323	Chloromethane(Methyl Chloride)	ND	200	273	ng/L	136			
MSD_201309270323	Chloromethane(Methyl Chloride)	ND	200	258	ng/L	129		20	5.7
CCCL	methyl-t-butyl ether-d3			102	%	103	(70-130)		
CCCM	methyl-t-butyl ether-d3			97.7	%	98	(70-130)		
MBLK	methyl-t-butyl ether-d3			104	%				
MS_201309270323	methyl-t-butyl ether-d3	104		104	%	104	(70-130)		
MSD_201309270323	methyl-t-butyl ether-d3	104		107	%	107	(70-130)		
QC Ref# 729286 - UCMR3 537 by EPA 537						**Analysis Date: 09/30/2013**			
CCCH	13C-PFDA - Surr#2 (S)			101	%	101	(70-130)		
CCCL	13C-PFDA - Surr#2 (S)			96.8	%	97	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			96.8	%	97	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			101	%	101	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			96.2	%	96	(70-130)		
MS1_201309250047	13C-PFDA - Surr#2 (S)			97.1	%	97	(70-130)		
MSD1_201309250047	13C-PFDA - Surr#2 (S)			91.2	%	91	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			96.2	%	96	(70-130)		
CCCH	13C-PFHxA - Surr#1 (S)			101	%	101	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			96.1	%	96	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			97.4	%	97	(70-130)		
MBLK_HI	13C-PFHxA - Surr#1 (S)			99.0	%	99	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			103	%	103	(70-130)		
MS1_201309250047	13C-PFHxA - Surr#1 (S)			101	%	101	(70-130)		
MSD1_201309250047	13C-PFHxA - Surr#1 (S)			104	%	104	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			94.6	%	95	(70-130)		
CCCH	13C-PFOA– IS#1 (I)			98.4	%	98	(50-150)		
CCCL	13C-PFOA– IS#1 (I)			103	%	103	(50-150)		
CCCM	13C-PFOA– IS#1 (I)			101	%	101	(50-150)		
MBLK_HI	13C-PFOA– IS#1 (I)			99.8	%	100	(50-150)		

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 450761

Perkasie Regional Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLHI	13C-PFOA– IS#1 (I)			98.5	%	99	(50-150)		
MS1_201309250047	13C-PFOA– IS#1 (I)			98.7	%	99	(50-150)		
MSD1_201309250047	13C-PFOA– IS#1 (I)			97.2	%	97	(50-150)		
QCS	13C-PFOA– IS#1 (I)			102	%	102	(50-150)		
CCCH	13C-PFOS– IS#2 (I)			99.2	%	99	(50-150)		
CCCL	13C-PFOS– IS#2 (I)			102	%	102	(50-150)		
CCCM	13C-PFOS– IS#2 (I)			99.7	%	100	(50-150)		
MBLK_HI	13C-PFOS– IS#2 (I)			100	%	100	(50-150)		
MRLHI	13C-PFOS– IS#2 (I)			98.9	%	99	(50-150)		
MS1_201309250047	13C-PFOS– IS#2 (I)			98.9	%	99	(50-150)		
MSD1_201309250047	13C-PFOS– IS#2 (I)			98.0	%	98	(50-150)		
QCS	13C-PFOS– IS#2 (I)			103	%	103	(50-150)		
CCCH	Perfluoro octanesulfonic acid - PFOS		0.13	0.126	ug/L	99	(70-130)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0316	ug/L	99	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0634	ug/L	99	(70-130)		
_K_HI	Perfluoro octanesulfonic acid - PFOS	ND		<0.01333	ug/L				
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0408	ug/L	102	(50-150)		
MS1_201309250047	Perfluoro octanesulfonic acid - PFOS	ND	0.04	0.0438	ug/L	99	(50-150)		
MSD1_201309250047	Perfluoro octanesulfonic acid - PFOS	ND	0.04	0.0446	ug/L	101	(50-150)	30	1.8
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0464	ug/L	97	(70-130)		
CCCH	Perfluoro-1-butanesulfonic acid -PFBS		0.29	0.283	ug/L	97	(70-130)		
CCCL	Perfluoro-1-butanesulfonic acid -PFBS		0.073	0.0753	ug/L	103	(50-150)		
CCCM	Perfluoro-1-butanesulfonic acid -PFBS		0.15	0.150	ug/L	103	(70-130)		
MBLK_HI	Perfluoro-1-butanesulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanesulfonic acid -PFBS		0.09	0.0926	ug/L	103	(50-150)		
MS1_201309250047	Perfluoro-1-butanesulfonic acid -PFBS	ND	0.091	0.101	ug/L	109	(50-150)		
MSD1_201309250047	Perfluoro-1-butanesulfonic acid -PFBS	ND	0.091	0.104	ug/L	113	(50-150)	30	2.9
QCS	Perfluoro-1-butanesulfonic acid -PFBS		0.044	0.0457	ug/L	103	(70-130)		
CCCH	Perfluoro-1-hexanesulfonic acid - PFHxS		0.096	0.0919	ug/L	96	(70-130)		
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0232	ug/L	97	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0470	ug/L	98	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	ND		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0313	ug/L	104	(50-150)		
MS1_201309250047	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.03	0.0312	ug/L	100	(50-150)		
MSD1_201309250047	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.03	0.0326	ug/L	104	(50-150)	30	4.4
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0434	ug/L	91	(70-130)		
CCCH	Perfluoroheptanoic acid - PFHpA		0.032	0.0318	ug/L	100	(70-130)		
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00780	ug/L	98	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0158	ug/L	99	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.0105	ug/L	105	(50-150)		
MS1_201309250047	Perfluoroheptanoic acid - PFHpA	ND	0.01	0.0111	ug/L	102	(50-150)		
MSD1_201309250047	Perfluoroheptanoic acid - PFHpA	ND	0.01	0.0116	ug/L	107	(50-150)	30	4.4
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0468	ug/L	94	(70-130)		
CCCH	Perfluoro-n-nonanoic acid -PFNA		0.064	0.0679	ug/L	106	(70-130)		
CCCL	Perfluoro-n-nonanoic acid -PFNA		0.016	0.0169	ug/L	106	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0338	ug/L	105	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0222	ug/L	111	(50-150)		
MS1_201309250047	Perfluoro-n-nonanoic acid -PFNA	ND	0.02	0.0221	ug/L	106	(50-150)		
MSD1_201309250047	Perfluoro-n-nonanoic acid -PFNA	ND	0.02	0.0230	ug/L	111	(50-150)	30	4.4
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0409	ug/L	82	(70-130)		
CCCH	Perfluorooctanoic acid - PFOA		0.064	0.0653	ug/L	102	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0157	ug/L	98	(50-150)		
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0321	ug/L	100	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	ND		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0214	ug/L	107	(50-150)		
MS1_201309250047	Perfluorooctanoic acid - PFOA	ND	0.02	0.0242	ug/L	98	(50-150)		
MSD1_201309250047	Perfluorooctanoic acid - PFOA	ND	0.02	0.0253	ug/L	104	(50-150)	30	4.4
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0424	ug/L	85	(70-130)		
QC Ref# 729751 - UMCR3 Chlorate by UCMR 300.1						**Analysis Date: 10/01/2013**			
CCCH	Chlorate		800	805	ug/L	101	(90-110)		
CCCL	Chlorate		20	20.2	ug/L	101	(75-125)		
CCCM	Chlorate		400	397	ug/L	99	(90-110)		
MBLK	Chlorate			<6.67	ug/L				
MRL_CHK	Chlorate		20	19.9	ug/L	99	(75-125)		
MS_201309190565	Chlorate	540	20	560	ug/L	112	(75-125)		
MSD_201309190565	Chlorate	540	20	561	ug/L	114	(75-125)	25	0.18
QCS	Chlorate		400	396	ug/L	99	(90-110)		
QCSD	Chlorate		400	396	ug/L	99	(90-110)	10	0.0
CCCH	DCA			99.6	%	100	(90-115)		
CCCL	DCA			99.9	%	100	(90-115)		
CCCM	DCA			101	%	101	(90-115)		
MBLK	DCA			102	%				
MRL_CHK	DCA			103	%	103	(90-115)		
MS_201309190565	DCA	101		101	%	101	(90-115)		

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MSD_201309190565	DCA	101		101	%	101	(90-115)		
QCS	DCA			100	%	100	(90-115)		
QCSD	DCA			102	%	102	(90-115)		
QC Ref# 730398 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 10/03/2013**			
CCCH	1,4-Dioxane		50	51.7	ug/L	103	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0610	ug/L	87	(50-150)		
CCCM	1,4-Dioxane		20	20.1	ug/L	100	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.103	ug/L	147	(50-150)		
MS_201309250054	1,4-Dioxane	ND	20	20.5	ug/L	102	(70-130)		
MSD_201309250054	1,4-Dioxane	ND	20	21.4	ug/L	107	(70-130)	20	4.3
CCCH	Dioxane-d8			95.6	%	96	(70-130)		
CCCL	Dioxane-d8			91.2	%	91	(70-130)		
CCCM	Dioxane-d8			98.9	%	99	(70-130)		
MBLK	Dioxane-d8			85.0	%				
MRL_CHK	Dioxane-d8			88.9	%	89	(70-130)		
MS_201309250054	Dioxane-d8	91		95.5	%	96	(70-130)		
MSD_201309250054	Dioxane-d8	91		99.7	%	100	(70-130)		
CCCH	THF-d8			107	%	107	(50-150)		
CCCL	THF-d8			114	%	114	(50-150)		
CCCM	THF-d8			114	%	114	(50-150)		
MBLK	THF-d8			114	%				
MRL_CHK	THF-d8			89.8	%	90	(50-150)		
MS_201309250054	THF-d8	116		102	%	102	(50-150)		
MSD_201309250054	THF-d8	116		100	%	100	(50-150)		
QC Ref# 730645 - UCMR3 Hexavalent Chromium by EPA 218.7						**Analysis Date: 10/06/2013**			
CCCH	Hexavalent Chromium (Dissolved)		20	20.4	ug/L	102	(85-115)		
CCCL	Hexavalent Chromium (Dissolved)		0.02	0.0192	ug/L	96	(50-150)		
CCCM	Hexavalent Chromium (Dissolved)		10	9.85	ug/L	99	(85-115)		
MBLK	Hexavalent Chromium (Dissolved)			<0.01	ug/L				
MS_201309250358	Hexavalent Chromium (Dissolved)	ND	2.0	2.02	ug/L	101	(85-115)		
MS2_201309250061	Hexavalent Chromium (Dissolved)	ND	0.02	0.0449	ug/L	84	(50-150)		
MSD_201309250358	Hexavalent Chromium (Dissolved)	ND	2.0	2.00	ug/L	100	(85-115)	15	1
MSD2_201309250061	Hexavalent Chromium (Dissolved)	ND	0.02	0.0465	ug/L	92	(50-150)	50	3.5
QCS	Hexavalent Chromium (Dissolved)		10	10.1	ug/L	101	(90-110)		
QCSD	Hexavalent Chromium (Dissolved)		10	10.1	ug/L	101	(90-110)	15	0.0

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