Table 6
Sample Locations and Analyses

Sample Location	Matrix	A4 Scientific CLP TAL Metals ICP-AES	A4 Scientific CLP TAL Total Metals/Hg ICP-MS and ICP/AES	A4 Scientific CLP TCL Semivolatiles and Pesticides/ PCBs	Datachem Laboratories CLP TCL Trace Volatiles	EPA Region 8 Lab SVOA/ MS-TOF / GRO/DRO	EPA Region 8 Lab VOCs	EPA Region 8 Lab VOC Light Gases	EPA Region 8 Alkalinity and Anions	Energy Labs Bacteria HPC/ IRB/ SRB	Energy Labs GRO/DRO	Zymax Geochemistry Forensics Testing
PGDW03	Water		X	X	X	X	X	X	X	X	X	
PGDW04	Water		X	X	X	X	X	X	X	X	X	X
PGDW05	Water		X	X	X	X	X	X	X	X	X	
PGDW05D	Water		X	X	X	X	X	X	X		X	X
PGDW10	Water		X	X	X	X	X	X	X	X	X	
PGDW20	Water		X	X	X	X	X	X	X	X	X	X
PGDW22	Water		X	X	X	X	X	X	X	X	X	
PGDW23	Water		X	X	X	X	X	X	X	X	X	X
PGDW25	Water		X	X	X	X	X	X	X	X	X	
PGDW30	Water		X	X	X	X	X	X	X	X	X	X
PGDW32	Water		X	X	X	X	X	X	X	X	X	
PGDW39	Water		X	X	X	X	X	X	X	X	X	
PGDW40	Water		X	X	X	X	X	X	X	X	X	X
PGDW41	Water		X	X	X	X	X	X	X	X	X	X
PGDW42	Water		X	X	X	X	X	X	X	X	X	
PGDW43	Water		X	X	X	X	X	X	X	X	X	X
PGDW44	Water		X	X	X	X	X	X	X	X	X	X
PGDW45	Water		X	X	X	X	X	X	X	X	X	
PGDW46	Water		X	X	X	X	X	X	X	X	X	
PGDW47	Water		X	X	X	X	X	X	X	X	X	
PGDW48	Water		X	X	X	X	X	X	X	X	X	
PGDW49	Water		X	X	X	X	X	X	X	X	X	
PGFB01	Water			X		X						
PGMW01	Water		X	X	X	X	X	X	X	X	X	
PGMW01D	Water		X	X	X	X	X	X	X	X	X	
PGMW02	Water		X	X	X	X	X	X	X	X	X	
PGMW03	Water		X	X	X	X	X	X	X	X	X	
PGPP01	Product					X	X					X
PGPP02	Product											X
PGPP03	Product											X
PGPP04	Product					X	X					X
PGPP05	Product					X	X					X
PGPP06	Product					X	X					X
PGPW01	Municipal Water		X	X	X	X	X	X	X	X	X	
PGPW02	Municipal Water		X	X	X	X	X	X	X	X	X	
PGSE01	Sediment	X		X	X	X					X	
PGSE02	Sediment	X		X	X	X					X	
PGSE02d	Sediment	X		X	X	X					X	
PGSE03	Sediment	X		X	X	X					X	
PGSE04	Sediment	X		X	X	X					X	
PGSE05	Sediment	X		X	X	X					X	
PGSO01	Soil Boring					X					X	
PGSO02	Soil Boring					X					X	
PGSO03	Soil Boring					X					X	
PGSW01	Surface Water		X	X	X	X	X	X	X		X	
PGSW02	Surface Water		X	X	X	X	X	X	X		X	
PGSW02D	Surface Water		X	X	X	X	X	X	X		X	
PGSW03	Surface Water		X	X	X	X	X	X	X		X	
PGSW04	Surface Water		X	X	X	X	X	X	X		X	
PGSW05	Surface Water		X	X	X	X	X	X	X		X	
PGTB01	Water				X	X						
PGFM20	Filter Sample					X	X					

EPAPAV0117972

Table 9
SVOA, TPH/DRO, Pesticide, and PCB Results

Analyte	Laboratory Name	NCDM (Drinking Water) MCL (µg/L)	NCDM (Drinking Water) RDSC (µg/L)	NCDM (Drinking Water) CICSC (µg/L)	PGDW03 µg/L	PGDW04 µg/L	PGDW05 µg/L	PGDW05D µg/L	PGDW10 µg/L	PGDW20 µg/L	PGDW22 µg/L	PGDW23 µg/L	PGDW25 µg/L	PGDW30 µg/L	PGDW32 µg/L	PGDW39 µg/L	PGDW40 µg/L	PGDW41 µg/L	PGDW42 µg/L	PGDW43 µg/L	PGDW44 µg/L	PGDW45 µg/L	PGDW46 µg/L	PGDW47 µg/L	PGDW48 µg/L	PGDW49 µg/L	PGPW01 µg/L	PGPW02 µg/L
Semi-Volatiles																												
1,1'-Biphenyl	CLP																											
2,4,5-Trichlorophenol	CLP									0.19 J																		
2,4,5-Trichlorophenol	U.S. EPA R8																											
2,4-Dimethylphenol	CLP		730																									
2,4-Dimethylphenol	U.S. EPA R8		730																									
2,6-Dinitrotoluene	CLP																											
2,6-Dinitrotoluene	U.S. EPA R8				0.12																							
Tris (2-butoxyethyl) phosphate	U.S. EPA R8				1.64 J [7,9]			0.56 J [1,9]	1.84 J [7,9]	0.63 J [7,9]						2.1 J [1,9]			0.55 J [1,9]		1.16 J [1,9]		1.83 J [9]	1.5 J [1,9]	0.65 J [9]	0.57 J [9]		
2-Chlorophenol	CLP																				0.34 J	0.61 J						
2-Chlorophenol	U.S. EPA R8																											
2-Methylnaphthalene	CLP																				0.11 J							
2-Methylnaphthalene	U.S. EPA R8																				0.37 J [1]							
2-Methylphenol	CLP																											
2-Methylphenol	U.S. EPA R8																											
3 & 4-Methylphenol	U.S. EPA R8		180																									
4-Chloro-3-methylphenol	CLP									0.19 J											0.27 J	0.42 J						
4-Chloro-3-methylphenol	U.S. EPA R8																											
4-Methylphenol	CLP		180																									
Acenaphthene	CLP		2,200																		0.43 J	0.24 J						
Acenaphthene	U.S. EPA R8		2,200																									
Acenaphthylene	CLP																			0.21 J								
Acenaphthylene	U.S. EPA R8																			0.21								
Acetophenone	CLP																											
Benzaldehyde	CLP																											
Bis(2-ethylhexyl)phthalate	CLP	6	730	6.1			U	U	U	U	U	U	U	U		U	U	11	U	U	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl)phthalate	U.S. EPA R8	6	730	6.1	2	2	U	U	2	2	2	2	2	2	2	2	2	7.4 J [4,8]	U	2	2	2	2	2	2	2	2	2
Butyl benzyl phthalate	U.S. EPA R8		7,300									0.18 J [1,8]	0.15 J [8]	0.13 J [1,8]	0.14 J [8]	0.16 J [1,8]			0.19 J [1,8]		0.13 J [1,8]							
Butylbenzylphthalate	CLP		7,300																								0.23 J	0.24 J
Caprolactam	CLP							0.95 J			0.98 J	0.63 J	0.27 J		0.54 J	0.22 J			0.92 J		0.49 J		0.3 J				0.29 J	3.8 J
Diethyl phthalate	U.S. EPA R8		29,000																									
Diethylphthalate	CLP		29,000							U				U			U								U			
Di-n-butyl phthalate	U.S. EPA R8		3,700					2				2	2	2	2	2			2									
Di-n-butylphthalate	CLP		3,700								0.16 J			0.18 J		0.15 J								0.17 J				
Di-n-octyl phthalate	U.S. EPA R8		730		2		2		2							2		6 J [8]										
Di-n-octyl phthalate	CLP		730																									
Fluorene	CLP	0.1		1,500																	0.18 J							
Fluorene	U.S. EPA R8	0.1		1,500																	0.15 J [1]							
Naphthalene	CLP	0.1		1,500																0.25 J								
Naphthalene	U.S. EPA R8	0.1		1,500																0.3 J [1]								
Phenol	CLP			11,000																	0.3 J	0.55 J				0.68 J		
Phenol	U.S. EPA R8			11,000																U								
TPH, DRO																												
TPH as Diesel (DRO)	Energy																	850										
TPH as Diesel (DRO)	U.S. EPA R8						75.3	76.4		21.7	154		27.8	35		30	32.6	479	21.6	49.7	44.3	41.3	25.5	26.6		130		23.1
TPH Total Extractable Hydrocarbons	Energy																	1300								400		
Pesticides/Aroclor																												
4,4'-DDE	CLP			0.25																								
alpha-HHC	CLP			0.014																								
Aroclor-1016	CLP																				0.29 J							
beta-HHC	CLP			0.047																						0.00081 JP		
Dieldrin	CLP		18	0.0053																								
Endosulfan I	CLP		220							0.0015 J																		
gamma-HHC (Lindane)	CLP	0.2	11	0.066																								
gamma-Chlordane	CLP		18	0.24													0.0016 J											
Heptachlor	CLP	0.4	18	0.019																	0.0072 J							
Methoxychlor	CLP	40	180																									

1 - Exceeded holding time.
2 - Compound found in method blank; detection is above 10x method blank value.
3 - Low recovery of surrogate; potentially biased low.
4 - High recovery of surrogate; potentially biased high.
5 - Exceeded upper linear calibration range; biased low.
6 - High recoveries for the compound in the corresponding spike sample.
7 - Variability of samples outside QC limits for matrix spike.
8 - Recoveries below control limits for initial calibration verification or continuing calibration verification; potentially biased low.
9 - Recoveries above control limits for initial calibration verification or continuing calibration verification; potentially biased high.
10 - Low recovery for the compound in the corresponding spike sample.

The sample was not analyzed for this analyte.
(Blank Cell) Non Detect for this analyte.

J (J without footnotes) - Estimated as below Contract Required Quantitation Limit but above Method Detection Limit.
P - Greater than 10% difference for detected concentrations between the two GC columns.
U - Compound found in field blank; for phthalate compounds, concentration in the sample is below 10x the concentration in the field blank. For other compounds, concentration in the sample is below 5x the concentration in the field blank. Thus, these compounds are NOT used for Risk Assessment per Risk Assessment Guidance for Superfund (Chapter 5 - Data Evaluation); 10x is the multiplier because phthalate esters are considered a common lab contaminant.

EPAPAV0117973

Table 10
VOA and TPH/GRO Results

Analyte	Laboratory Name	SCDM (Drinking Water)			PGDW03 µg/L	PGDW04 µg/L	PGDW05 µg/L	PGDW05D µg/L	PGDW10 µg/L	PGDW20 µg/L	PGDW22 µg/L	PGDW23 µg/L	PGDW25 µg/L	PGDW30 µg/L	PGDW32 µg/L	PGDW39 µg/L	PGDW40 µg/L	PGDW41 µg/L	PGDW42 µg/L	PGDW43 µg/L	PGDW44 µg/L	PGDW45 µg/L	PGDW46 µg/L	PGDW47 µg/L	PGDW48 µg/L
		MCL (µg/L)	RDSC (µg/L)	CRSC (µg/L)																					
Volatile Organic Analysis																									
1,1,2-Trichloro-1,2,2-trifluoromethane	CLP																			0.38 J					
1,2,4-Trimethylbenzene	U.S. EPA R8																								
1,3,5-Trimethylbenzene	U.S. EPA R8																								
1,3-Dimethyl adamantane	U.S. EPA R8						1.74 J [1]	1.71 J [1]						1.81 J [1]			0.36 J [1]								
2-Butanone (MEK)	CLP		22,000																						
Acetone	CLP		33,000																						
Adamantane	U.S. EPA R8						0.21 J [1]	0.21 J [1]							0.33 J [1,4]										
Benzene	CLP	5	150	1.5																					
Benzene	U.S. EPA R8	5	150	1.5																0.54 J [1]					
Carbon disulfide	CLP		3,700																						
Carbon disulfide	U.S. EPA R8		3,700																						
Chloroform	CLP		360																						
Chloroform	U.S. EPA R8		360															0.24 J [1]							
Chloromethane	CLP																	0.27 J							
Chloromethane	U.S. EPA R8																								
Cyclohexane	CLP																								
Ethane	U.S. EPA R8									10.9															
Ethylbenzene	CLP	700	3,700																						
Ethylbenzene	U.S. EPA R8	700	3,700																						
Isopropylbenzene	CLP		3,700																						
Isopropylbenzene	U.S. EPA R8		3,700																						
m,p-Xylene	CLP	10,000	73,000																						
m,p-Xylene	U.S. EPA R8	10,000	73,000																						
Methane	U.S. EPA R8						5.44 J [1]	[1]	[1]	172	[1]	149 J [1]		808 J [1]	36.3		98.9		60		[1]	[1]			
Methylcyclohexane	CLP																								
Methylene chloride	CLP	5	2,200	11																					
Methylene chloride	U.S. EPA R8	5	2,200	11																					
n-Butyl Benzene	U.S. EPA R8																								
n-Propyl Benzene	U.S. EPA R8																								
o-Xylene	CLP	10,000	73,000																						
o-Xylene	U.S. EPA R8	10,000	73,000																						
p-Isopropyltoluene	U.S. EPA R8																								
Propane	U.S. EPA R8																								
sec-Butylbenzene	U.S. EPA R8																								
Styrene	CLP	100	7,300																						
Styrene	U.S. EPA R8	100	7,300														0.14 J [1]								
tert-Butylbenzene	U.S. EPA R8																								
Toluene	CLP	1,000	7,300															0.51							
Toluene	U.S. EPA R8	1,000	7,300																						
TPH, GRO																									
TPH as Gasoline (GRO)	Energy																								
TPH as Gasoline (GRO)	U.S. EPA R8						26.3	31.1							22.6										
TPH Total Purgeable Hydrocarbons	Energy						49	47						36											

1 - Exceeded holding time.
2 - Compound found in method blank; detection is above 10x method blank value.
3 - Low recovery of surrogate; potentially biased low.
4 - High recovery of surrogate; potentially biased high.
5 - Exceeded upper linear calibration range; biased low.
6 - High recoveries for the compound in the corresponding spike sample.
7 - Variability of samples outside QC limits for matrix spike.
8 - Recoveries below control limits for initial calibration verification or continuing calibration verification; potentially biased low.
9 - Recoveries above control limits for initial calibration verification or continuing calibration verification; potentially biased high.
10 - Low recovery for the compound in the corresponding spike sample.
The sample was not analyzed for this analyte.
(Blank Cell) Non Detect for this analyte.
D - Diluted.
J - Estimated as below Contract Required Quantitation Limit but above Method Detection Limit.

EPAPAV0117974

Table 11
Wet Chemistry and Bacteriological Results

Analyte	Laboratory Name	PGDW03	PGDW04	PGDW05	PGDW05D	PGDW10	PGDW20	PGDW22	PGDW23	PGDW25	PGDW30	PGDW32	PGDW39	PGDW40
Bacteriological														
Bacteria, Heterotrophic (MPN/ml)	Energy	2		45		6		230	510				2	50
Bacteria, Iron Related	Energy	Present	Absent	Present		Present	Absent	Present	Present	Absent	Absent	Absent	Absent	Present
Bacteria, Approximate Iron Related Bacteria Population (CFU/ml)	Energy	500	Not Aggressive	9,000		9,000	Not Aggressive	9,000	2,300	Not aggressive	Not aggressive	Not Aggressive	Not Aggressive	9,000
Bacteria, Sulfate Reducing	Energy	Absent	Absent	Present		Absent	Absent	Absent	Absent	Absent	Present	Absent	Present	Present
Bacteria, Approximate Sulfate Reducing Bacteria Population (CFU/ml)	Energy	0	0	10 - 100		0	cc	0	0	c	10 - 100	0	10 - 100	10 - 100
Wet Chemistry (mg/L)														
Alkalinity (ppm)	U.S. EPA R8	28	38.3	88.4	89.1	147	67.9	337	54.2	295	94	31.5	129	86.3
Sulfate as SO4 (ppm)	U.S. EPA R8	570	532	287	287	293	1270	2780	368	441	333	368	3640	426
Fluoride (ppm)	U.S. EPA R8	0.8	0.9	0.9	1	0.9	0.8		1.5		0.9	2.4	0.3	
Chloride (ppm)	U.S. EPA R8	20.7	23.3	16.5	16.9	7.5	32.6	74.6	19.7	9.5	15.5	21.4	52.9	13.1
Nitrate as N (ppm)	U.S. EPA R8	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	40.7	<0.3	1.7	<0.3	<0.3	<0.3	<0.3
Nitrite as N (ppm)	U.S. EPA R8	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

1 - Exceeded holding time.
2 - Compound found in method blank; detection is above 10x method blank value.
3 - Low recovery of surrogate; potentially biased low.
4 - High recovery of surrogate; potentially biased high.
5 - Exceeded upper linear calibration range; biased low.
6 - High recoveries for the compound in the corresponding spike sample.
7 - Variability of samples outside QC limits for matrix spike.
8 - Recoveries below control limits for initial calibration verification or continuing calibration verification; potentially biased low.
9 - Recoveries above control limits for initial calibration verification or continuing calibration verification; potentially biased high.
10 - Low recovery for the compound in the corresponding spike sample.

The sample was not analyzed for this analyte.
(Blank Cell) Non Detect for this analyte.

EPAPAV0117975

Table 12
Metals Data

Analyte	CLP Limits - Water (µg/L)	SCDM (Drinking Water) MCLG (µg/L)	MCL (µg/L)	RDSC (µg/L)	CRSC (µg/L)	PGDW03 µg/L	PGDW04 µg/L	PGDW05 µg/L	PGDW05D µg/L	PGDW10 µg/L	PGDW20 µg/L	PGDW22 µg/L	PGDW23 µg/L	PGDW25 µg/L	PGDW30 µg/L	PGDW32 µg/L	PGDW39 µg/L	PGDW40 µg/L	PGDW41 µg/L	PGDW42 µg/L	PGDW43 µg/L
ALUMINUM	200	0	0			200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	741	200 U	200 U
ANTIMONY	2	6	6	15		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2.1 U
ARSENIC	1	0	10	11	0.057	0.42 J	0.32 J	0.36 J	1 U	1 U	0.5 J	0.47 J	1 U	0.46 J	1 U	0.53 J	0.32 J	1 U	0.89 J	1 U	1.3
BARIUM	10	2,000	2,000	2,600		6.7 J	6 J	11.1	10.3	9.1 J	9.3 J	6.3 J	8.9 J	14	6.8 J	9.6 J	6.9 J	11.7	9.6 J	7.9 J	5.4 J
BERYLLIUM	1	4	4	73		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 J
CADMIUM	1	5	5	18		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 J
CALCIUM	5000					16300	15500	3330 J	3150 J	5760	71700	397000	5820	70100	4050 J	6890	389000	6570 J	270000 J	5060	208000 J
CHROMIUM	2	100	100	110		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.7 J	2 U	0.45 J
COBALT	1					1 U	1 U	1 U	1 U	1 U	1 U	0.33 J	1 U	1 U	1 U	1 U	0.42 J	1 U	0.51 J	1 U	0.57 J
COPPER	2	1,300	1,300			4.4 J	3.9 J	7.7 U	4.7 J	2.7 J	8.8 J	16.3 J	4.3 J	4.3 J	3.9 J	3 J	16.7 J	3.1 U	201 J	5.5 J	19.4 J
IRON	100					100 U	100 U	66.6 J	64.7 J	100 U	300	100 U	100 U	100 U	44.1 J	125	330	1260	1880	96.6 J	403
LEAD	1	0	15			1 U	1 U	0.42 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.91 J	38.3	1 U	0.81 J
MAGNESIUM	5000					5000 U	5000 U	5000 U	5000 U	5000 U	8140	130000	5000 U	9630	5000 U	5000 U	147000	5000 U	57500	5000 U	13700
MANGANESE	1			5,100		1.7	2.8	2.2	1.8	3.8	31.3	3	2.8	20.9	2.2	3.2	174	32.8	222	3	84.4
MERCURY	0.2	2	2	11		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL	1			730		0.38 J	0.26 J	0.48 J	0.21 J	0.4 J	0.46 J	1.9	0.23 J	1 J	0.83 J	0.61 J	1.3	0.49 J	3.6	0.42 J	2.4
POTASSIUM	5000					5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5830	5000 U	5000 U	5000 U	5000 U	5280	5000 U	2680 J	5000 U	5000 U
SELENIUM	5	50	50	180		5 U	5 U	5 U	5 U	5 U	0.98 J	3.9 J	5 U	1.3 J	5 U	5 U	1.2 J	5 U	1.4 J	5 U	3.9 J
SILVER	1			180		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.3 J
SODIUM	5000					251000	265000	189000	181000	195000	550000	908000	194000	269000	195000	193000	1110000	244000	1030000	181000	911000
THALLIUM	1	0.5	2			1 U	1 U	0.23 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.76 J
VANADIUM	5			260		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.7 J	5 U	1 J
ZINC	2			11,000		2.5	1.1 J	1.4 J	2 U	2	7.6	2.7	2 U	15.1	1.2 J	23.9	26.8	211	32.5	1.2 J	17.5

MCLG Maximum Contaminant Level Goal. A non-enforceable health goal that is set at a level at which no known or anticipated adverse effect on the health of persons occurs and which allows an adequate margin of safety.
MCL Maximum contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available analytical and treatment technologies and taking cost into consideration. MCLs are enforceable standards.
SCDM Superfund Chemical Data Matrix
RDSC Reference Dose Screening Concentration
CRSC Cancer Risk Screening Concentration
CRDL Contract Required Detection Limit
J Estimated as below Contract Required Quantitation Limit but above Method Detection Limit.
U Non-Detect

EPAPAV0117976

Table 13
Fixed and Light Gases in Natural Gas from Production Wells and Domestic Water Wells

Analyte	Laboratory Name	PGDW03	PGDW04	PGDW05	PGDW05D	PGDW10	PGDW20	PGDW22	PGDW23	PGDW25	PGDW30
Methane	ZymaX		5.2		53		1300		820		6300
Ethane	ZymaX						52		1.7		1.8
Propanes	ZymaX						5.8				
Butanes	ZymaX				7.3		6.9		12		3.1
Pentanes	ZymaX				11		1.3		2.3		3.9
Hexanes	ZymaX				4.7				2.4		0.77
Heptanes	ZymaX				2.5				0.5		0.79
Octanes	ZymaX				4.1		1.9		2.4		2.9
Nonanes	ZymaX										
Decanes	ZymaX										
Total	ZymaX		5.2		82		1368		841		6313

The concentrations represent ppm of the gas hydrocarbons in the headspace created above the water in the 1 litre bottle.
These are not concentrations in the water of the analyte.

The sample was not analyzed for this analyte.
(Blank Cell) Non Detect for this analyte.

EPAPAV0117977

Table 17
C3-C10 Gasoline Range Compounds from Production Wells and Domestic Wells
(ug/L)

Analyte	Laboratory Name	PGMWO1D	PGMW02	PGMW03	PGPP01	PGPP04W	PGPP05	PGPP06	PGSW01	PGSW02	PGSW02D	PGSW03	PGSW04	PGSW05	PGDW03	PGDW04	PGDW05	PGDW05D	PGDW10	PGDW20	PGDW22	PGDW23	PGDW25	PGDW30
Isobutane	ZymaX					1363.4	1808.6	723.0												2.6		8.9		
Isobutene	ZymaX					116.1																		
Butane	ZymaX					1379.9	1079.9	703.6																
3-Methyl-1-butene	ZymaX																							
Isopentane	ZymaX					1017.3	2685.2	422.6																
1-Pentene	ZymaX																							
2-Methyl-1-butene	ZymaX																							
Pentane	ZymaX					2483.9	1212.9	48778.4																
trans-2-Pentene	ZymaX					8.6																		
cis-2-Pentene	ZymaX																							
2-Methyl-2-butene	ZymaX					46.8																		
2,2-Dimethylbutane	ZymaX					42.6	646.9																	
Cyclopentene	ZymaX					6.1																		
4-Methyl-1-pentene	ZymaX																							
Cyclopentane	ZymaX					240.3	191.3	186.0																
2,3-Dimethylbutane	ZymaX					97.9	1389.2	70.8																
2-Methylpentane	ZymaX					256.7	2002.4	147.1																
3-Methylpentane	ZymaX					178	1322.5	97.9																
Hexane	ZymaX					301.4	1407.6	153.7																
trans-2-Hexene	ZymaX																							
2-Methyl-2-pentene	ZymaX					66.8																		
3-Methylcyclopentene	ZymaX																							
3-Methyl-2-pentene	ZymaX																							
cis-2-Hexene	ZymaX																							
2,2-Dimethylpentane	ZymaX																							
1,2-Dichloroethane (EDC)	ZymaX																							
Methylcyclopentane	ZymaX					720.5	1184.7	490.6																
2,4-Dimethylpentane	ZymaX						1070.6	81.4																
1-Methylcyclopentene	ZymaX					6.2																		
Benzene	ZymaX					2052.5	379.1	1953.0																
5-Methyl-1-hexene	ZymaX																							
4,4-Dimethyl-2-pentene	ZymaX																							
3,3-Dimethylpentane	ZymaX						161																	
Thiophene	ZymaX																							
Cyclohexane	ZymaX					1139	1527.9	728.6																
2-Methylhexane	ZymaX					72.2	2095.0	142.1																
2,3-Dimethylpentane	ZymaX					7.4	320.8																	
3-Methylhexane	ZymaX					92	2201.3	158.8																
trans-1,3-Dimethylcyclopentane	ZymaX					74.6	822.8	63.8																
cis-1,3-Dimethylcyclopentane	ZymaX					87.2	921.7	70.7																
2-Methyl-1-hexene	ZymaX																							
1,2-Dimethylcyclopentane	ZymaX					125.5	702.6	85.2																
2,2,4-Trimethylpentane	ZymaX						62.6																	
Heptane	ZymaX					227.9	2844.4																	
trans-2-Heptene	ZymaX																							
Methylcyclohexane	ZymaX					1799.9	5934.7	1089.0																
2,5-Dimethylhexane	ZymaX					14.8	1414.1	103.4																
2,4-Dimethylhexane	ZymaX					17.4	1478.7	112.3																
2,3,4-Trimethylpentane	ZymaX						76.3																	
2,3-Dimethylhexane	ZymaX					24	1898.5	135.9																
1,2-Dibromoethane (EDB)	ZymaX																							
2-Methylheptane	ZymaX						2390.8	204.4																
4-Methylheptane	ZymaX					54	1860.8	144.3																
Toluene	ZymaX					11329.2	1284.8	7288.4																
2,3,3-Trimethylpentane	ZymaX						111																	
3,4-Dimethylhexane	ZymaX						2167.4	189.2																
2-Methylthiophene	ZymaX																							
3-Ethyl-3-methylpentane	ZymaX						157.9																	
3-Methylthiophene	ZymaX																							
3-Methylheptane	ZymaX					85.5	3145.6	253.0																
trans-1,4-Dimethylcyclohexane	ZymaX					526.9	10460.3	928.2																
2-Methyl-1-heptene	ZymaX																							
trans-1,2-Dimethylcyclohexane	ZymaX					193.1	5670.5	421.0																
1-Octene	ZymaX																							
Octane	ZymaX					208.5	3030.2	267.2																

EPAPAV0117978

Table 17
C3–C10 Gasoline Range Compounds from Production Wells and Domestic Wells
(ug/L)

Analyte	Laboratory Name	PGMW01D	PGMW02	PGMW03	PGPP01	PGPP04W	PGPP05	PGPP06	PGSW01	PGSW02	PGSW02D	PGSW03	PGSW04	PGSW05	PGDW03	PGDW04	PGDW05	PGDW05D	PGDW10	PGDW20	PGDW22	PGDW23	PGDW25	PGDW30
2,2-Dimethylheptane	ZymaX					8.7	1299.8	97.7																
2,4,4-Trimethylhexane	ZymaX					59.4	4870.1	425.8																
2,4-Dimethylheptane	ZymaX					10.7	1699.7	132.4																
2,6-Dimethylheptane	ZymaX					38.3	2787.2	239.2																
Ethylcyclohexane	ZymaX					184.2	5016.4	440.8																
2,5-Dimethylheptane	ZymaX					48.2	5706.2	512.0																
Ethylbenzene	ZymaX					631.6	579.2	262.0																
2-Ethylthiophene	ZymaX																							
m,p-Xylenes	ZymaX					11512.9	3684.8	4291.9																
3-Ethylheptane	ZymaX					16.6	2047.9	188.4																
3-Methyloctane	ZymaX					81.2	10753.8	828.1																
2,3-Dimethylheptane	ZymaX						449.7																	
4-Methyloctane	ZymaX					44.1	3917.7	316.4																
1,2,4-Trimethylcyclohexane	ZymaX						358.8																	
Styrene	ZymaX					22.1																		
2-Methyloctane	ZymaX					36.4	3219.3	300.2																
1,1,2-Trimethylcyclohexane	ZymaX					34.8	4720.3	387.6																
o-Xylene	ZymaX					2639.9	1306.9	1099.5																
1-Nonene	ZymaX																							
Nonane	ZymaX					142.6	3916.8	377.2																
3,3,5-Trimethylheptane	ZymaX						3729.6	294.7																
Isopropylbenzene	ZymaX					541.8	3427.3	336.5																
Isopropylcyclohexane	ZymaX					19.4	4876.7	434.9																
2,2-Dimethyloctane	ZymaX						105.3																	
3-Methylnonane	ZymaX					20.3	5908.1	637.9																
3,3-Dimethyloctane	ZymaX					39.7	1458.9	126.3																
n-Propylbenzene	ZymaX					129.5	802.7	110.2																
1-Methyl-3-ethylbenzene	ZymaX					579.7	1652	412.6																
1-Methyl-4-ethylbenzene	ZymaX					192.3	793.6	154.9																
1,3,5-Trimethylbenzene	ZymaX					464.5	1566	365.9																
3,3,4-Trimethylheptane	ZymaX						2139.6																	
1-Methyl-2-ethylbenzene	ZymaX					164	674.4	159.7																
1,2,4-Trimethylbenzene	ZymaX					694.7	2620.7	632.1																
1-Decene	ZymaX																							
1-Methyl-3-isopropylbenzene	ZymaX					44.7	1082.9	107.3																
Decane	ZymaX					73.7	4153.3	407.8																
sec-Butylbenzene	ZymaX					7	655.3	61.5																
1,2,3-Trimethylbenzene	ZymaX					155	903.7	170.3																
Indane	ZymaX					9.1	358.8																	
Indene	ZymaX						79.1																	
1,3-Diethylbenzene	ZymaX						626.3	63.6																
n-Butylbenzene	ZymaX						178.9																	
1,3-Dimethyl-5-ethylbenzene	ZymaX																							
1,4-Diethylbenzene	ZymaX						256.1																	
1-Methyl-2-propylbenzene	ZymaX						133.2																	
1,4-Dimethyl-2-ethylbenzene	ZymaX																							
1,3-Dimethyl-4-ethylbenzene	ZymaX							81.4																
1,2-Dimethyl-4-ethylbenzene	ZymaX																							
1,3-Dimethyl-2-ethylbenzene	ZymaX																							
Undecane	ZymaX						312.3	373.7																
1,2,4,5-Tetramethylbenzene	ZymaX																							
1,2,3,5-Tetramethylbenzene	ZymaX																							
1,2,3,4-Tetramethylbenzene	ZymaX																							
Naphthalene	ZymaX																							
2-Methylnaphthalene	ZymaX																							
1-Methylnaphthalene	ZymaX																							
Benzothiophene	ZymaX																							
n-Pentylbenzene	ZymaX																							

The sample was not analyzed for this analyte.
(Blank Cell) Non Detect for this analyte.

EPAPAV0117979