

GW - 40

MONITORING REPORTS

DATE:

2004-2002

GIANT**INDUSTRIES, INC.**
SAN JUAN REGIONAL OFFICE**RECEIVED****OCT 05 2005****Oil Conservation Division
Environmental Bureau**

February 9, 2005

Mr. Roger Anderson
Bureau Chief
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87504

Dear Mr. Anderson:

Enclosed you will find the annual report for Giant Refining Company's Bloomfield Refinery for 2004.

Please contact me if you have any questions.

Sincerely,



Tim Kinney
Remediation Project Manager

/gr

Enclosure

cc w/enc.: Luke Wethers-Giant
David Kirby-Giant
Jacque Cumbie-Giant
Stephanie Odell-BLM
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111 COUNTY
ROAD 4990
BLOOMFIELD
NEW MEXICO
87413

ANNUAL DATA REPORT
GIANT BLOOMFIELD REFINERY
2004

Prepared By:

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INTRODUCTION AND SUMMARY ANNUAL REPORT 2004

INTRODUCTION

Tank 22 is being used for intermediate water storage. All water is treated by the carbon filter unit exclusively. All water was discharged into the southern infiltration field in 2004.

SUMMARY

Section 2

Section 2 contains a summary of the annual analytical results. Raw data, as received from the laboratory, is available on request as a supplement to the annual report.

Section 3

Potentiometric surface maps, as well as the adjusted water surface elevation and product thickness for each well, are included in Section 3.

Section 4

Section 4 illustrates the volume history for the year. Total volume pumped from each well, as well as current tank volumes and the reinjection volume, is reported. Tanks 21, 22, and 106 are no longer in use for water storage.

SECTION 2

The following pages show the annual analytical data for the Giant Refining Remediation Project. The data is broken down into units as described below.

	<u>Unit of Measure</u>
Total dissolved solids (180)	mg/l
Total dissolved solids (calc)	mg/l
Total alkalinity as CaCO ₃	mg/l
Total hardness as CaCO ₃	mg/l
Bicarbonate as HCO ₃	mg/l
Carbonate as CO ₃	mg/l
Chloride	mg/l
Sulfate	mg/l
Calcium	mg/l
Magnesium	mg/l
Potassium	mg/l
Sodium	mg/l

The remainder of the data is measured in ug/l.

GIANT INDUSTRIES, INC.
 ONSITE REMEDIATION PROJECT
 ANNUAL ANALYTICAL DATA SUMMARY
 2004

	JAN	APR	JUL	OCT	DEC
SYSTEM EFFLUENT					
Lab pH	7.6	7.3	7.3	7.3	
Lab Conductivity@25C	2800	2900	2700	3200	
Total Dissolved Solids (Calc)	2100	2300	2200	2500	
Total Alkalinity as CaCO3	490	430	450	310	
Total Hardness as CaCO3	730	780	790	880	
Bicarbonate as HCO3	490	430	450	310	
Carbonate as CO3	5.0	nd	1.0	1.0	
Hydroxide	nd	nd	nd	nd	
Chloride	92	92	87	90	
Sulfate	1100	1200	1100	1300	
Calcium	250	260	270	310	
Magnesium	26	25	28	29	
Potassium	3.4	3.5	3.5	4.2	
Sodium	430	460	410	390	
HALOCARBONS					
Bromodichloromethane	nd	nd	nd	nd	
Bromoform	nd	nd	nd	nd	
Bromomethane	nd	nd	nd	nd	
Carbon Tetrachloride	nd	nd	nd	nd	
Chloroethane	nd	nd	nd	nd	
Chloroform	nd	nd	nd	nd	
Chloromethane	nd	nd	nd	nd	
Dibromochloromethane	nd	nd	nd	nd	
1,2-Dibromomethane (EDB)	nd	nd	nd	nd	
1,2-Dichlorobenzene	nd	nd	nd	nd	
1,3-Dichlorobenzene	nd	nd	nd	nd	
1,4-Dichlorobenzene	nd	nd	nd	nd	
1,1-Dichloroethane	nd	nd	nd	nd	
1,2-Dichloroethane (EDC)	nd	nd	nd	nd	
1,1-Dichloroethene	nd	nd	nd	nd	
cis-1,2-Dichloroethene					
trans-1,2-Dichloroethene	nd	nd	nd	nd	
1,2-Dichloropropane	nd	nd	nd	nd	
cis-1,2-Dichloropropene	nd	nd	nd	nd	
trans-1,2-Dichloropropene	nd	nd	nd	nd	
Methylene Chloride	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	nd	nd	nd	nd	

	JAN	APR	JUL	OCT	DEC
Tetrachloroethane	nd	nd	nd	nd	
1,1,1-Trichloroethane	nd	nd	nd	nd	
1,1,2-Trichloroethane	nd	nd	nd	nd	
Trichloroethene	nd	nd	nd	nd	
Trichlorofluoromethane	nd	nd	nd	nd	
Vinyl Chloride	nd	nd	nd	nd	
AROMATICS					
Benzene	nd	nd	nd	nd	
Chlorobenzene	nd	nd	nd	nd	
1,2-Dichlorobenzene	nd	nd	nd	nd	
1,3-Dichlorobenzene	nd	nd	nd	nd	
1,4-Dichlorobenzene	nd	nd	nd	nd	
Ethylbenzene	nd	nd	nd	nd	
Methyl-t-Butyl Ether	nd	nd	nd	nd	
Toluene	nd	nd	nd	nd	
Total Xylenes	nd	nd	nd	nd	
PAH					
1-Methylnapthalene	nd				
2-Methylnapthalene	nd				
Benzo(a)pyrene	nd				
Napthalene	nd				
METALS (mg/l)					
Antimony	nd				
Arsenic	nd				
Beryllium	nd				
Cadmium	nd				
Chromium	nd				
Copper	nd				
Lead	nd				
Nickel	0.016				
Selenium	nd				
Silver	nd				
Thallium	nd				
Zinc	nd				
Mercury	nd				
SYSTEM INFLUENCE					
Lab pH	7.6	7.3	7.5	7.3	
Lab Conductivity@25C	2800	2900	2700	3200	
Total Dissolved Solids (Calc)	2100	2300	2200	2500	
Total Alkalinity as CaCO3	480	430	450	310	

	JAN	APR	JUL	OCT	DEC
Total Hardness as CaCO ₃	720	710	780	900	
Bicarbonate as HCO ₃	480	430	450	310	
Carbonate as CO ₃	2.0	nd	1.0	nd	
Hydroxide	nd	nd	nd	nd	
Chloride	92	92	88	90	
Sulfate	1000	1200	1100	1300	
Calcium	250	260	270	310	
Magnesium	25	25	27	29	
Potassium	3.3	3.6	3.4	4.2	
Sodium	430	440	410	390	
HALOCARBONS					
Bromodichloromethane	nd	nd	nd	nd	
Bromoform	nd	nd	nd	nd	
Bromomethane	nd	nd	nd	nd	
Carbon Tetrachloride	nd	nd	nd	nd	
Chloroethane	nd	nd	nd	nd	
Chloroform	nd	nd	nd	nd	
Chloromethane	nd	nd	nd	nd	
Dibromochloromethane	nd	nd	nd	nd	
1,2-Dibromomethane (EDB)	nd	nd	nd	nd	
1,2-Dichlorobenzene	nd	nd	nd	nd	
1,3-Dichlorobenzene	nd	nd	nd	nd	
1,4-Dichlorobenzene	nd	nd	nd	nd	
1,1-Dichloroethane	nd	nd	nd	nd	
1,2-Dichloroethane (EDC)	nd	nd	nd	nd	
1,1-Dichloroethene	nd	nd	nd	nd	
trans-1,2-Dichloroethene	nd	nd	nd	nd	
1,2-Dichloropropane	nd	nd	nd	nd	
cis-1,2-Dichloropropene	nd	nd	nd	nd	
trans-1,2-Dichloropropene	nd	nd	nd	nd	
Methylene Chloride	nd	nd	nd	nd	
1,1,2,2-Tetrachloroethane	nd	nd	nd	nd	
Tetrachloroethane	nd	nd	nd	nd	
1,1,1-Trichloroethane	nd	nd	nd	nd	
1,1,2-Trichloroethane	nd	nd	nd	nd	
Trichloroethene	nd	nd	nd	nd	
Trichlorofluoromethane	nd	nd	nd	nd	
Vinyl Chloride	nd	nd	nd	nd	
AROMATICS					
Benzene	nd	nd	nd	nd	
Chlorobenzene	nd	nd	nd	nd	
1,2-Dichlorobenzene	nd	nd	nd	nd	

	JAN	APR	JUL	OCT	DEC
1,3-Dichlorobenzene	nd	nd	nd	nd	
1,4-Dichlorobenzene	nd	nd	nd	nd	
Ethylbenzene	nd	nd	nd	nd	
Methyl-t-Butyl Ether	nd	nd	nd	nd	
Toluene	nd	nd	nd	nd	
Total Xylenes	nd	nd	nd	nd	
GRW-3					
Lab pH	7.7				
Lab Conductivity@25C	4300				
Total Dissolved Solids (Calc)	3700				
Total Alkalinity as CaCO3	160				
Total Hardness as CaCO3	1100				
Bicarbonate as HCO3	160				
Carbonate as CO3	nd				
Hydroxide	nd				
Chloride	27				
Sulfate	2500				
Calcium	400				
Magnesium	19				
Potassium	9.1				
Sodium	740				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				

	JAN	APR	JUL	OCT	DEC
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
PAH					
1-Methylnapthalene	nd				
2-Methylnapthalene	nd				
Benzo(a)pyrene	nd				
Napthalene	nd				
GRW-6					
Lab pH	7.7				
Lab Conductivity@25C	2300				
Total Dissolved Solids (Calc)	1500				
Total Alkalinity as CaCO3	720				
Total Hardness as CaCO3	410				
Bicarbonate as HCO3	720				
Carbonate as CO3	3.0				
Hydroxide	nd				
Chloride	110				
Sulfate	410				
Calcium	130				
Magnesium	22				
Potassium	1.8				
Sodium	430				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				

	JAN	APR	JUL	OCT	DEC
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
PAH					
1-Methylnapthalene	nd				
2-Methylnapthalene	nd				
Benzo(a)pyrene	nd				
Napthalene	nd				
GBR-17					

	JAN	APR	JUL	OCT	DEC
Lab pH					6.4
Lab Conductivity@25C					2300
Total Dissolved Solids (Calc)					2000
Total Alkalinity as CaCO3					280
Total Hardness as CaCO3					990
Bicarbonate as HCO3					280
Carbonate as CO3					nd
Hydroxide					nd
Chloride					50
Sulfate					1100
Calcium					340
Magnesium					33
Potassium					7.2
Sodium					280
HALOCARBONS					
Bromodichloromethane					nd
Bromoform					nd
Bromomethane					nd
Carbon Tetrachloride					nd
Chloroethane					nd
Chloroform					nd
Chloromethane					nd
Dibromochloromethane					nd
1,2-Dibromomethane (EDB)					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
1,1-Dichloroethane					nd
1,2-Dichloroethane (EDC)					nd
1,1-Dichloroethene					nd
trans-1,2-Dichloroethene					nd
1,2-Dichloropropane					nd
cis-1,2-Dichloropropene					nd
trans-1,2-Dichloropropene					nd
Methylene Chloride					nd
1,1,2,2-Tetrachloroethane					nd
Tetrachloroethane					nd
1,1,1-Trichloroethane					nd
1,1,2-Trichloroethane					nd
Trichloroethene					nd
Trichlorofluoromethane					nd
Vinyl Chloride					nd

	JAN	APR	JUL	OCT	DEC
AROMATICS					
Benzene					nd
Chlorobenzene					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
Ethylbenzene					nd
Methyl-t-Butyl Ether					nd
Toluene					nd
Total Xylenes					nd
GBR-24D					
Lab pH	7.6				
Lab Conductivity@25C	4300				
Total Dissolved Solids (Calc)	3400				
Total Alkalinity as CaCO3	230				
Total Hardness as CaCO3	1400				
Bicarbonate as HCO3	230				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	20				
Sulfate	2000				
Calcium	480				
Magnesium	47				
Potassium	12				
Sodium	620				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	19				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				

	JAN	APR	JUL	OCT	DEC
1,2-Dichloropropane	nd				
cis-1,-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
PAH					
1-Methylnapthalene	nd				
2-Methylnapthalene	nd				
Benzo(a)pyrene	nd				
Napthalene	nd				
GBR-30					
Lab pH	7.0				
Lab Conductivity@25C	4500				
Total Dissolved Solids (Calc)	3500				
Total Alkalinity as CaCO3	240				
Total Hardness as CaCO3	1500				
Bicarbonate as HCO3	240				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	410				
Sulfate	2000				
Calcium	510				
Magnesium	44				
Potassium	8.8				
Sodium	630				

	JAN	APR	JUL	OCT	DEC
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
PAH					
1-Methylnaphthalene	nd				
2-Methylnaphthalene	nd				

	JAN	APR	JUL	OCT	DEC
Benzo(a)pyrene	nd				
Napthalene	nd				
GBR-31					
Lab pH	7.5				
Lab Conductivity@25C	3200				
Total Dissolved Solids (Calc)	2600				
Total Alkalinity as CaCO3	200				
Total Hardness as CaCO3	1000				
Bicarbonate as HCO3	200				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	79				
Sulfate	1700				
Calcium	350				
Magnesium	31				
Potassium	5.3				
Sodium	460				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				

	JAN	APR	JUL	OCT	DEC
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
PAH					
1-Methylnapthalene	nd				
2-Methylnapthalene	nd				
Benzo(a)pyrene	nd				
Napthalene	nd				
GBR-32					
Lab pH					6.1
Lab Conductivity@25C					4900
Total Dissolved Solids (Calc)					4200
Total Alkalinity as CaCO3					250
Total Hardness as CaCO3					1600
Bicarbonate as HCO3					250
Carbonate as CO3					nd
Hydroxide					nd
Chloride					470
Sulfate					2100
Calcium					550
Magnesium					58
Potassium					11
Sodium					770
HALOCARBONS					
Bromodichloromethane					nd
Bromoform					nd
Bromomethane					nd
Carbon Tetrachloride					nd
Chloroethane					nd
Chloroform					0.7

	JAN	APR	JUL	OCT	DEC
Chloromethane					nd
Dibromochloromethane					nd
1,2-Dibromomethane (EDB)					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
1,1-Dichloroethane					nd
1,2-Dichloroethane (EDC)					nd
1,1-Dichloroethene					nd
trans-1,2-Dichloroethene					nd
1,2-Dichloropropane					nd
cis-1,2-Dichloropropene					nd
trans-1,2-Dichloropropene					nd
Methylene Chloride					nd
1,1,2,2-Tetrachloroethane					nd
Tetrachloroethane					nd
1,1,1-Trichloroethane					nd
1,1,2-Trichloroethane					nd
Trichloroethene					nd
Trichlorofluoromethane					nd
Vinyl Chloride					nd
AROMATICS					
Benzene					nd
Chlorobenzene					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
Ethylbenzene					nd
Methyl-t-Butyl Ether					nd
Toluene					nd
Total Xylenes					nd
<u>GBR-48</u>					
Lab pH					5.8
Lab Conductivity@25C					5900
Total Dissolved Solids (Calc)					4800
Total Alkalinity as CaCO3					50
Total Hardness as CaCO3					1800
Bicarbonate as HCO3					50
Carbonate as CO3					nd
Hydroxide					nd
Chloride					890
Sulfate					2100

	JAN	APR	JUL	OCT	DEC
Calcium					620
Magnesium					70
Potassium					11
Sodium					850
HALOCARBONS					
Bromodichloromethane					nd
Bromoform					nd
Bromomethane					nd
Carbon Tetrachloride					nd
Chloroethane					nd
Chloroform					1.1
Chloromethane					nd
Dibromochloromethane					nd
1,2-Dibromomethane (EDB)					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
1,1-Dichloroethane					nd
1,2-Dichloroethane (EDC)					nd
1,1-Dichloroethene					nd
trans-1,2-Dichloroethene					nd
1,2-Dichloropropane					nd
cis-1,2-Dichloropropene					nd
trans-1,2-Dichloropropene					nd
Methylene Chloride					nd
1,1,2,2-Tetrachloroethane					nd
Tetrachloroethane					2.5
1,1,1-Trichloroethane					nd
1,1,2-Trichloroethane					nd
Trichloroethene					1.0
Trichlorofluoromethane					nd
Vinyl Chloride					nd
AROMATICS					
Benzene					nd
Chlorobenzene					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
Ethylbenzene					nd
Methyl-t-Butyl Ether					nd
Toluene					nd
Total Xylenes					nd

	JAN	APR	JUL	OCT	DEC
GBR-49					
Lab pH					6.3
Lab Conductivity@25C					4500
Total Dissolved Solids (Calc)					3600
Total Alkalinity as CaCO3					250
Total Hardness as CaCO3					1100
Bicarbonate as HCO3					250
Carbonate as CO3					nd
Hydroxide					nd
Chloride					520
Sulfate					1700
Calcium					360
Magnesium					40
Potassium					10
Sodium					450
HALOCARBONS					
Bromodichloromethane					nd
Bromoform					nd
Bromomethane					nd
Carbon Tetrachloride					nd
Chloroethane					nd
Chloroform					1.9
Chloromethane					nd
Dibromochloromethane					nd
1,2-Dibromomethane (EDB)					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
1,1-Dichloroethane					0.6
1,2-Dichloroethane (EDC)					nd
1,1-Dichloroethene					nd
trans-1,2-Dichloroethene					nd
1,2-Dichloropropane					nd
cis-1,2-Dichloropropene					nd
trans-1,2-Dichloropropene					nd
Methylene Chloride					nd
1,1,2,2-Tetrachloroethane					nd
Tetrachloroethane					3.5
1,1,1-Trichloroethane					nd
1,1,2-Trichloroethane					nd
Trichloroethene					1.7
Trichlorofluoromethane					nd

	JAN	APR	JUL	OCT	DEC
Vinyl Chloride					nd
AROMATICS					
Benzene					nd
Chlorobenzene					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
Ethylbenzene					nd
Methyl-t-Butyl Ether					nd
Toluene					nd
Total Xylenes					nd
<u>GBR-50</u>					
Lab pH					2.0
Lab Conductivity@25C					3300
Total Dissolved Solids (Calc)					2900
Total Alkalinity as CaCO3					160
Total Hardness as CaCO3					1100
Bicarbonate as HCO3					160
Carbonate as CO3					nd
Hydroxide					nd
Chloride					47
Sulfate					1900
Calcium					420
Magnesium					35
Potassium					7.2
Sodium					450
HALOCARBONS					
Bromodichloromethane					nd
Bromoform					nd
Bromomethane					nd
Carbon Tetrachloride					nd
Chloroethane					nd
Chloroform					nd
Chloromethane					nd
Dibromochloromethane					nd
1,2-Dibromomethane (EDB)					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
1,1-Dichloroethane					nd
1,2-Dichloroethane (EDC)					nd

	JAN	APR	JUL	OCT	DEC
1,1-Dichloroethene					nd
trans-1,2-Dichloroethene					nd
1,2-Dichloropropane					nd
cis-1,2-Dichloropropene					nd
trans-1,2-Dichloropropene					nd
Methylene Chloride					nd
1,1,2,2-Tetrachloroethane					nd
Tetrachloroethane					nd
1,1,1-Trichloroethane					nd
1,1,2-Trichloroethane					nd
Trichloroethene					nd
Trichlorofluoromethane					nd
Vinyl Chloride					nd
AROMATICS					
Benzene					nd
Chlorobenzene					nd
1,2-Dichlorobenzene					nd
1,3-Dichlorobenzene					nd
1,4-Dichlorobenzene					nd
Ethylbenzene					nd
Methyl-t-Butyl Ether					nd
Toluene					nd
Total Xylenes					nd
GBR-51					
Lab pH	7.7				
Lab Conductivity@25C	2800				
Total Dissolved Solids (Calc)	2400				
Total Alkalinity as CaCO3	210				
Total Hardness as CaCO3	970				
Bicarbonate as HCO3	210				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	61				
Sulfate	1400				
Calcium	340				
Magnesium	29				
Potassium	nd				
Sodium	330				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				

	JAN	APR	JUL	OCT	DEC
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
GBR-52					
Lab pH	8.0				
Lab Conductivity@25C	3000				
Total Dissolved Solids (Calc)	2600				
Total Alkalinity as CaCO3	200				
Total Hardness as CaCO3	1300				
Bicarbonate as HCO3	200				

	JAN	APR	JUL	OCT	DEC
Carbonate as CO ₃	1.0				
Hydroxide	nd				
Chloride	64				
Sulfate	1600				
Calcium	470				
Magnesium	34				
Potassium	2.0				
Sodium	340				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				

	JAN	APR	JUL	OCT	DEC
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
SHS-4					
Lab pH	7.4				
Lab Conductivity@25C	3200				
Total Dissolved Solids (Calc)	2700				
Total Alkalinity as CaCO3	200				
Total Hardness as CaCO3	1400				
Bicarbonate as HCO3	200				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	66				
Sulfate	1700				
Calcium	480				
Magnesium	36				
Potassium	5.5				
Sodium	340				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				

	JAN	APR	JUL	OCT	DEC
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
SHS-6					
Lab pH	7.3				
Lab Conductivity@25C	2800				
Total Dissolved Solids (Calc)	2300				
Total Alkalinity as CaCO3	220				
Total Hardness as CaCO3	970				
Bicarbonate as HCO3	220				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	60				
Sulfate	1400				
Calcium	340				
Magnesium	28				
Potassium	2.4				
Sodium	330				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				

	JAN	APR	JUL	OCT	DEC
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
<u>SES-19</u>					
Lab pH	7.5				
Lab Conductivity@25C	2600				
Total Dissolved Solids (Calc)	1800				
Total Alkalinity as CaCO3	650				
Total Hardness as CaCO3	570				
Bicarbonate as HCO3	650				
Carbonate as CO3	2.0				
Hydroxide	nd				
Chloride	110				
Sulfate	630				
Calcium	190				
Magnesium	24				
Potassium	2.3				
Sodium	450				

	JAN	APR	JUL	OCT	DEC
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
SHS-10					
Lab pH	7.3				
Lab Conductivity@25C	3100				

	JAN	APR	JUL	OCT	DEC
Total Dissolved Solids (Calc)	2400				
Total Alkalinity as CaCO3	440				
Total Hardness as CaCO3	950				
Bicarbonate as HCO3	440				
Carbonate as CO3	1				
Hydroxide	nd				
Chloride	120				
Sulfate	1200				
Calcium	290				
Magnesium	57				
Potassium	11				
Sodium	440				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				

	JAN	APR	JUL	OCT	DEC
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	1.6				
SHS-12					
Lab pH	7.2				
Lab Conductivity@25C	2900				
Total Dissolved Solids (Calc)	2100				
Total Alkalinity as CaCO3	500				
Total Hardness as CaCO3	740				
Bicarbonate as HCO3	500				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	110				
Sulfate	980				
Calcium	260				
Magnesium	21				
Potassium	1.8				
Sodium	450				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,-Dichloropropene	nd				

	JAN	APR	JUL	OCT	DEC
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
SHS-13					
Lab pH	7.0				
Lab Conductivity@25C	2800				
Total Dissolved Solids (Calc)	3200				
Total Alkalinity as CaCO3	650				
Total Hardness as CaCO3	1600				
Bicarbonate as HCO3	650				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	200				
Sulfate	1500				
Calcium	570				
Magnesium	49				
Potassium	3.1				
Sodium	410				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				

	JAN	APR	JUL	OCT	DEC
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	1.7				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
SHS-14					
Lab pH	7.3				
Lab Conductivity@25C	2500				
Total Dissolved Solids (Calc)	2100				
Total Alkalinity as CaCO3	300				
Total Hardness as CaCO3	900				
Bicarbonate as HCO3	300				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	56				
Sulfate	1200				

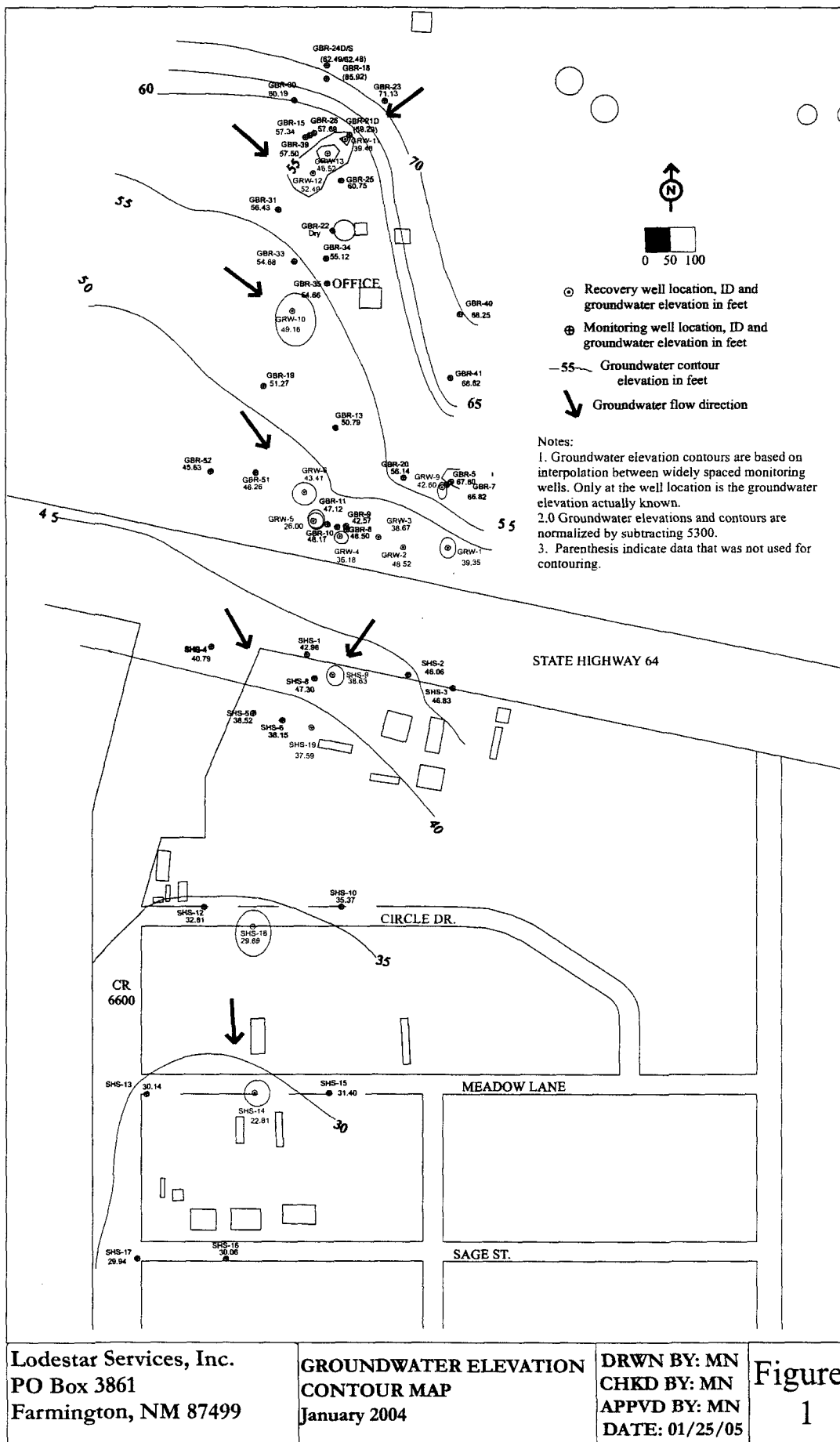
	JAN	APR	JUL	OCT	DEC
Calcium	310				
Magnesium	32				
Potassium	3.0				
Sodium	260				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				

	JAN	APR	JUL	OCT	DEC
<u>SHS-15</u>					
Lab pH	7.4				
Lab Conductivity@25C	2700				
Total Dissolved Solids (Calc)	2300				
Total Alkalinity as CaCO3	270				
Total Hardness as CaCO3	1100				
Bicarbonate as HCO3	270				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	74				
Sulfate	1300				
Calcium	360				
Magnesium	44				
Potassium	3.7				
Sodium	260				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				

	JAN	APR	JUL	OCT	DEC
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
<u>SHS-16</u>					
Lab pH	7.5				
Lab Conductivity@25C	2800				
Total Dissolved Solids (Calc)	2500				
Total Alkalinity as CaCO3	310				
Total Hardness as CaCO3	1100				
Bicarbonate as HCO3	310				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	54				
Sulfate	1400				
Calcium	380				
Magnesium	45				
Potassium	7.2				
Sodium	250				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				

	JAN	APR	JUL	OCT	DEC
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				
SHS-17					
Lab pH	7.4				
Lab Conductivity@25C	3500				
Total Dissolved Solids (Calc)	2700				
Total Alkalinity as CaCO3	270				
Total Hardness as CaCO3	1100				
Bicarbonate as HCO3	270				
Carbonate as CO3	1.0				
Hydroxide	nd				
Chloride	270				
Sulfate	1200				
Calcium	350				
Magnesium	48				
Potassium	4.4				
Sodium	430				
HALOCARBONS					
Bromodichloromethane	nd				
Bromoform	nd				

	JAN	APR	JUL	OCT	DEC
Bromomethane	nd				
Carbon Tetrachloride	nd				
Chloroethane	nd				
Chloroform	nd				
Chloromethane	nd				
Dibromochloromethane	nd				
1,2-Dibromomethane (EDB)	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
1,1-Dichloroethane	nd				
1,2-Dichloroethane (EDC)	nd				
1,1-Dichloroethene	nd				
trans-1,2-Dichloroethene	nd				
1,2-Dichloropropane	nd				
cis-1,2-Dichloropropene	nd				
trans-1,2-Dichloropropene	nd				
Methylene Chloride	nd				
1,1,2,2-Tetrachloroethane	nd				
Tetrachloroethane	nd				
1,1,1-Trichloroethane	nd				
1,1,2-Trichloroethane	nd				
Trichloroethene	nd				
Trichlorofluoromethane	nd				
Vinyl Chloride	nd				
AROMATICS					
Benzene	nd				
Chlorobenzene	nd				
1,2-Dichlorobenzene	nd				
1,3-Dichlorobenzene	nd				
1,4-Dichlorobenzene	nd				
Ethylbenzene	nd				
Methyl-t-Butyl Ether	nd				
Toluene	nd				
Total Xylenes	nd				



**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

JANUARY, 2004

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	54.95	54.95	0.00	5339.35
GRW-2	5391.28	42.76	42.76	0.00	5348.52
GRW-3	5388.77	50.10	50.10	0.00	5338.67
GRW-4	5390.02	53.84	53.84	0.00	5336.18
GRW-5	5390.56	64.56	64.56	0.00	5326.00
GRW-6	5390.81	47.40	47.40	0.00	5343.41
GRW-9	5395.70	53.10	53.10	0.00	5342.60
GRW-10	5395.02	48.50	45.20	3.30	5349.16
GRW-11	5397.85	58.37	58.37	0.00	5339.48
GRW-12	5397.24	44.75	44.75	0.00	5352.49
GRW-13	5396.90	50.38	50.38	0.00	5346.52
GBR-5	5395.07	27.27	27.27	0.00	5367.80
GBR-7	5395.85	29.06	29.02	0.04	5366.82
GBR-8	5390.50	42.00	42.00	0.00	5348.50
GBR-9	5389.92	47.35	47.35	0.00	5342.57
GBR-10	5390.57	42.40	42.40	0.00	5348.17
GBR-11	5389.43	42.34	42.30	0.04	5347.12
GBR-13	5393.04	42.25	42.25	0.00	5350.79
GBR-15	5397.99	40.65	40.65	0.00	5357.34
GBR-18	5421.68	35.76	35.76	0.00	5385.92
GBR-19	5393.83	42.56	42.56	0.00	5351.27
GBR-20	5393.47	37.37	37.32	0.05	5356.14
GBR-21S	5400.65	26.57	26.57	0.00	5374.08
GBR-21D	5400.19	40.90	40.90	0.00	5359.29
GBR-22	5395.91	DRY	DRY	0.00	5395.91
GBR-23	5403.72	30.13	29.12	1.01	5371.13
GBR-24S	5396.08	34.25	33.40	0.85	5362.48
GBR-24D	5396.77	34.28	34.28	0.00	5362.49
GBR-25	5396.72	40.65	38.05	2.60	5360.75
GBR-26	5395.59	37.90	37.90	0.00	5357.69
GBR-30	5396.58	36.39	36.39	0.00	5360.19
GBR-31	5394.86	38.43	38.43	0.00	5356.43
GBR-33	5396.28	41.60	41.60	0.00	5354.68
GBR-34	5394.00	39.80	38.65	1.15	5355.12
GBR-35	5393.66	40.19	38.70	1.49	5354.66
GBR-39	5397.55	40.05	40.05	0.00	5357.50
GBR-40	5400.76	32.51	32.51	0.00	5368.25
GBR-41	5396.35	27.53	27.53	0.00	5368.82
GBR-51	5389.68	43.42	43.42	0.00	5346.26
GBR-52	5387.74	42.11	42.11	0.00	5345.63

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 JANUARY, 2004
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.64	40.57	0.07	5342.96
SHS-2	5381.66	35.60	35.60	0.00	5346.06
SHS-3	5383.33	36.50	36.50	0.00	5346.83
SHS-4	5383.62	42.83	42.83	0.00	5340.79
SHS-5	5378.36	39.84	39.84	0.00	5338.52
SHS-6	5378.17	40.02	40.02	0.00	5338.15
SHS-8	5380.25	41.31	40.26	1.05	5339.78
SHS-9	5380.79	42.16	42.16	0.00	5338.63
SHS-10	5373.80	38.43	38.43	0.00	5335.37
SHS-12	5373.94	41.13	41.13	0.00	5332.81
SHS-13	5367.81	37.67	37.67	0.00	5330.14
SHS-14	5367.07	44.26	44.26	0.00	5322.81
SHS-15	5366.21	34.81	34.81	0.00	5331.40
SHS-16	5362.58	32.52	32.52	0.00	5330.06
SHS-17	5364.35	34.41	34.41	0.00	5329.94
SHS-18	5373.64	44.20	44.20	0.00	5329.44
SHS-19	5378.89	50.00	50.00	0.00	5328.89

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

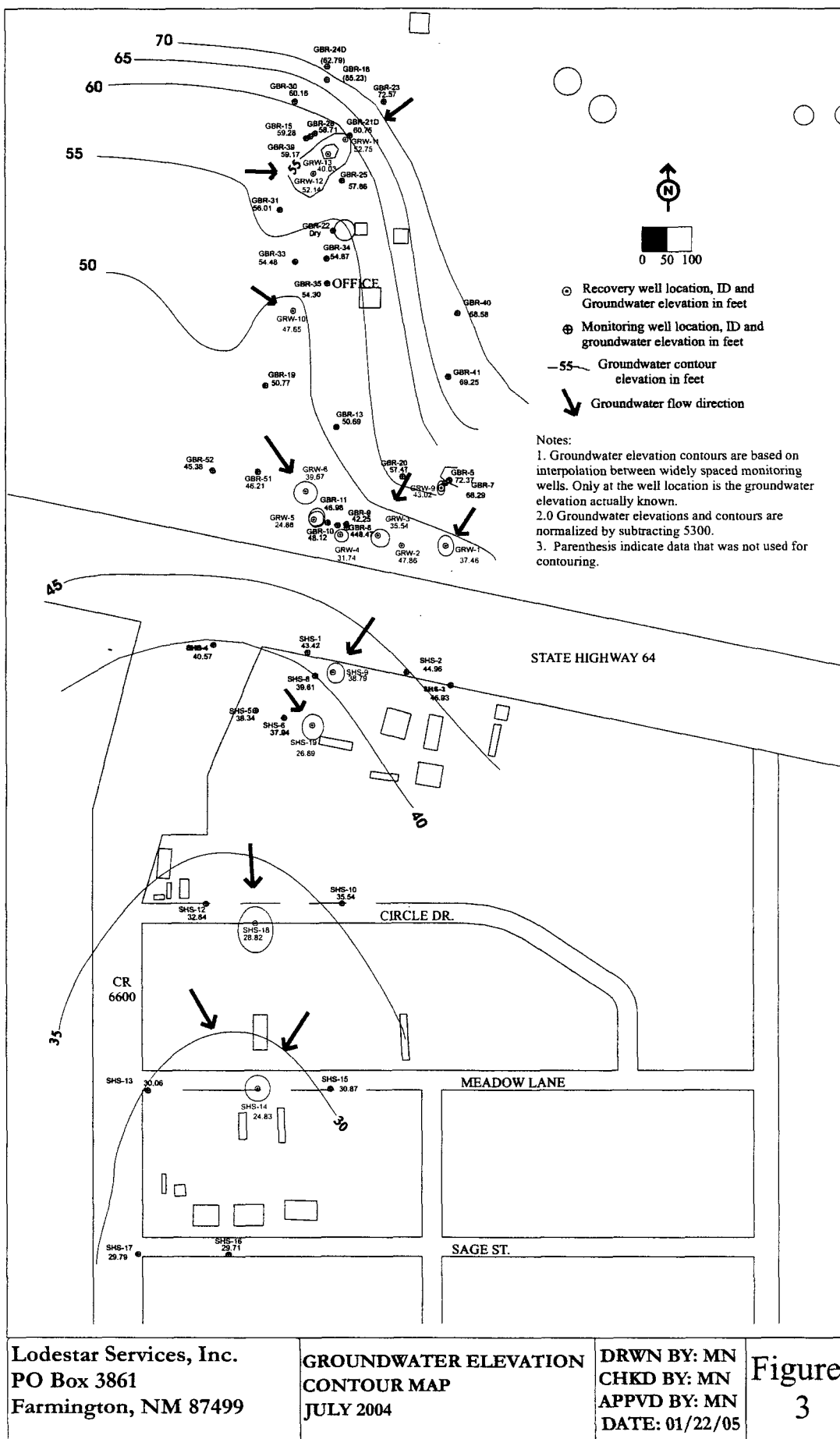
APRIL, 2004

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	61.44			5332.86
GRW-2	5391.28	41.25			5350.03
GRW-3	5388.77	52.12			5336.65
GRW-4	5390.02	58.38			5331.64
GRW-5	5390.56	62.90			5327.66
GRW-6	5390.81	50.57			5340.24
GRW-9	5395.70	52.15			5343.55
GRW-10	5395.02	52.42			5342.60
GRW-11	5397.85	57.12			5340.73
GRW-12	5397.24	44.55			5352.69
GRW-13	5396.90	56.68			5340.22
GBR-5	5395.07	24.70			5370.37
GBR-7	5395.85	27.24	27.22	0.02	5368.63
GBR-8	5390.50	42.06			5348.44
GBR-9	5389.92	47.74			5342.18
GBR-10	5390.57	42.45			5348.12
GBR-11	5389.43	42.45	42.40	0.05	5347.02
GBR-13	5393.04	42.28			5350.76
GBR-15	5397.99	41.49			5356.50
GBR-18	5421.68	35.20			5386.48
GBR-19	5393.83	43.10	43.07	0.03	5350.75
GBR-20	5393.47	35.98			5357.49
GBR-21S	5400.65	27.08	27.04	0.04	5373.60
GBR-21D	5400.19	41.30			5358.89
GBR-22	5395.91	Dry			5395.91
GBR-23	5403.72	30.55	29.75	0.80	5373.81
GBR-24S	5396.08	32.42	32.00	0.42	5364.00
GBR-24D	5396.77	34.96			5361.81
GBR-25	5396.72	41.80	39.00	2.80	5357.16
GBR-26	5395.59	38.34			5357.25
GBR-30	5396.58	36.40			5360.18
GBR-31	5394.86	38.75			5356.11
GBR-33	5396.28	41.92			5354.36
GBR-34	5394.00	39.61	39.47	0.14	5354.50
GBR-35	5393.66	40.15	39.48	0.67	5354.05
GBR-39	5397.55	40.90			5356.65
GBR-40	5400.76	32.16			5368.60
GBR-41	5396.35	26.68			5369.67
GBR-51	5389.68	43.68			5346.00
GBR-52	5387.74	42.30			5345.44

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 APRIL, 2004
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	39.99	39.83	0.16	5343.68
SHS-2	5381.66	36.77			5344.89
SHS-3	5383.33	36.46			5346.87
SHS-4	5383.62	42.94			5340.68
SHS-5	5378.36	39.83			5338.53
SHS-6	5378.17	40.02			5338.15
SHS-8	5380.25	41.34	40.31	1.03	5339.73
SHS-9	5380.79	42.29			5338.50
SHS-10	5373.80	38.01			5335.79
SHS-12	5373.94	40.74			5333.20
SHS-13	5367.81	37.19			5330.62
SHS-14	5367.07	35.78			5331.29
SHS-15	5366.21	34.27			5331.94
SHS-16	5362.58	32.00			5330.58
SHS-17	5364.35	33.92			5330.43
SHS-18	5373.64	44.60			5329.04
SHS-19	5378.89	51.53			5327.36

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT THICKNESS



Lodestar Services, Inc.
PO Box 3861
Farmington, NM 87499

GROUNDWATER ELEVATION
CONTOUR MAP
JULY 2004

DRWN BY: MN
CHKD BY: MN
APPVD BY: MN
DATE: 01/22/05

Figure
3

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

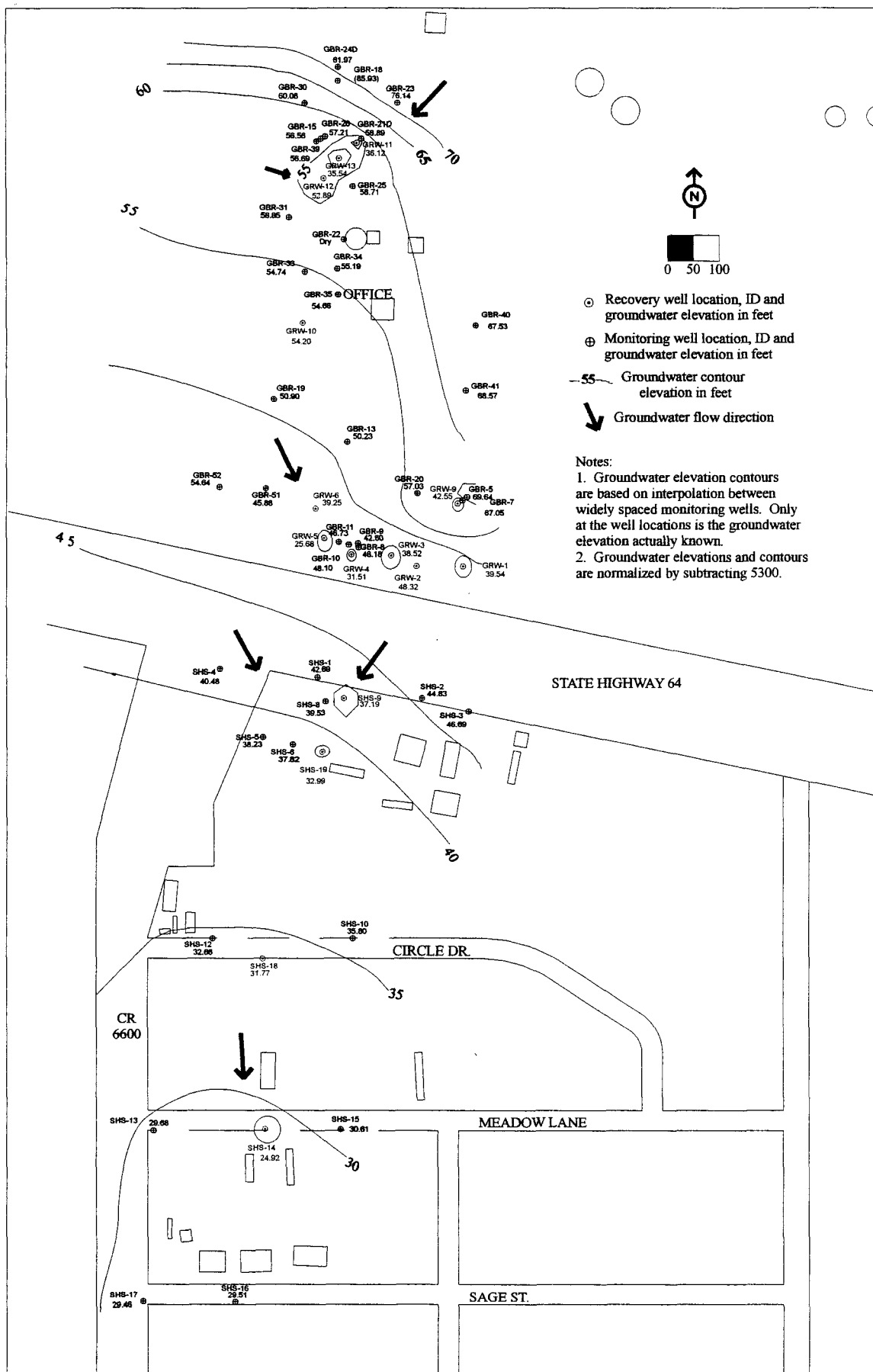
JULY, 2004

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	56.84		0.00	5337.46
GRW-2	5391.28	43.42		0.00	5347.86
GRW-3	5388.77	53.23		0.00	5335.54
GRW-4	5390.02	58.28		0.00	5331.74
GRW-5	5390.56	65.68		0.00	5324.88
GRW-6	5390.81	51.14		0.00	5339.67
GRW-9	5395.70	52.68		0.00	5343.02
GRW-10	5395.02	47.50	47.34	0.16	5347.65
GRW-11	5397.85	45.10		0.00	5352.75
GRW-12	5397.24	45.10		0.00	5352.14
GRW-13	5396.90	56.60		0.00	5340.30
GBR-5	5395.07	22.70		0.00	5372.37
GBR-7	5395.85	27.56		0.00	5368.29
GBR-8	5390.50	42.03		0.00	5348.47
GBR-9	5389.92	47.67		0.00	5342.25
GBR-10	5390.57	42.45		0.00	5348.12
GBR-11	5389.43	42.45		0.00	5346.98
GBR-13	5393.04	42.35		0.00	5350.69
GBR-15	5397.99	38.71		0.00	5359.28
GBR-18	5421.68	36.45		0.00	5385.23
GBR-19	5393.83	43.10	43.05	0.05	5350.77
GBR-20	5393.47	36.00		0.00	5357.47
GBR-21S	5400.65	26.46		0.00	5374.19
GBR-21D	5400.19	39.44		0.00	5360.75
GBR-22	5395.91	Dry		0.00	5395.91
GBR-23	5403.72	30.37	30.10	0.27	5373.57
GBR-24S	5396.08	32.66	32.61	0.05	5363.46
GBR-24D	5396.77	33.98		0.00	5362.79
GBR-25	5396.72	38.89	38.85	0.04	5357.86
GBR-26	5395.59	36.88		0.00	5358.71
GBR-30	5396.58	36.42		0.00	5360.16
GBR-31	5394.86	38.85		0.00	5356.01
GBR-33	5396.28	41.80		0.00	5354.48
GBR-34	5394.00	39.13		0.00	5354.87
GBR-35	5393.66	39.42	39.35	0.07	5354.30
GBR-39	5397.55	38.38		0.00	5359.17
GBR-40	5400.76	32.18		0.00	5368.58
GBR-41	5396.35	27.10		0.00	5369.25
GBR-51	5389.68	43.47		0.00	5346.21
GBR-52	5387.74	42.36		0.00	5345.38

GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE
JULY, 2004
Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.12		0.00	5343.42
SHS-2	5381.66	36.70		0.00	5344.96
SHS-3	5383.33	36.40		0.00	5346.93
SHS-4	5383.62	43.05		0.00	5340.57
SHS-5	5378.36	40.02		0.00	5338.34
SHS-6	5378.17	40.23		0.00	5337.94
SHS-8	5380.25	40.68	40.63	0.05	5339.61
SHS-9	5380.79	42.00		0.00	5338.79
SHS-10	5373.80	38.26		0.00	5335.54
SHS-12	5373.94	41.30		0.00	5332.64
SHS-13	5367.81	37.75		0.00	5330.06
SHS-14	5367.07	42.24		0.00	5324.83
SHS-15	5366.21	35.34		0.00	5330.87
SHS-16	5362.58	32.87		0.00	5329.71
SHS-17	5364.35	34.56		0.00	5329.79
SHS-18	5373.64	44.82		0.00	5328.82
SHS-19	5378.89	48.33		0.00	5330.56

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



Lodestar Services, Inc.
PO Box 3861
Farmington, NM 87499

GROUNDWATER ELEVATION
CONTOUR MAP
OCTOBER 2004

DRWN BY: MN
CHKD BY: MN
APPVD BY: MN
DATE: 01/27/05

Figure
4

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

OCTOBER, 2004

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	54.76		0.00	5339.54
GRW-2	5391.28	42.96		0.00	5348.32
GRW-3	5388.77	50.25		0.00	5338.52
GRW-4	5390.02	58.51		0.00	5331.51
GRW-5	5390.56	64.88		0.00	5325.68
GRW-6	5390.81	51.56		0.00	5339.25
GRW-9	5395.70	53.15		0.00	5342.55
GRW-10	5395.02	40.84	40.81	0.03	5354.20
GRW-11	5397.85	61.73		0.00	5336.12
GRW-12	5397.24	44.35		0.00	5352.89
GRW-13	5396.90	61.36		0.00	5335.54
GBR-5	5395.07	25.43		0.00	5369.64
GBR-7	5395.85	28.80		0.00	5367.05
GBR-8	5390.50	42.32		0.00	5348.18
GBR-9	5389.92	47.32		0.00	5342.60
GBR-10	5390.57	42.47		0.00	5348.10
GBR-11	5389.43	42.70		0.00	5346.73
GBR-13	5393.04	42.81		0.00	5350.23
GBR-15	5397.99	41.43		0.00	5356.56
GBR-18	5421.68	35.75		0.00	5385.93
GBR-19	5393.83	42.99	42.92	0.07	5350.90
GBR-20	5393.47	36.44		0.00	5357.03
GBR-21S	5400.65	26.30		0.00	5374.35
GBR-21D	5400.19	41.30		0.00	5358.89
GBR-22	5395.91	Dry		0.00	5395.91
GBR-23	5403.72	27.70	27.55	0.15	5376.14
GBR-24S	5396.08	33.36	33.16	0.20	5362.88
GBR-24D	5396.77	34.80		0.00	5361.97
GBR-25	5396.72	38.13	37.98	0.15	5358.71
GBR-26	5395.59	38.38		0.00	5357.21
GBR-30	5396.58	36.50		0.00	5360.08
GBR-31	5394.86	36.01		0.00	5358.85
GBR-33	5396.28	41.54		0.00	5354.74
GBR-34	5394.00	38.81		0.00	5355.19
GBR-35	5393.66	39.19	38.95	0.24	5354.66
GBR-39	5397.55	40.86		0.00	5356.69
GBR-40	5400.76	33.23		0.00	5367.53
GBR-41	5396.35	27.78		0.00	5368.57
GBR-51	5389.68	43.80		0.00	5345.88
GBR-52	5387.74	42.10		0.00	5345.64

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 OCTOBER, 2004

Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.85		0.00	5342.69
SHS-2	5381.66	36.83		0.00	5344.83
SHS-3	5383.33	36.64		0.00	5346.69
SHS-4	5383.62	43.14		0.00	5340.48
SHS-5	5378.36	40.13		0.00	5338.23
SHS-6	5378.17	40.35		0.00	5337.82
SHS-8	5380.25	40.73	40.72	0.01	5339.53
SHS-9	5380.79	42.95		0.00	5337.84
SHS-10	5373.80	38.50		0.00	5335.30
SHS-12	5373.94	44.58		0.00	5329.36
SHS-13	5367.81	38.13		0.00	5329.68
SHS-14	5367.07	42.15		0.00	5324.92
SHS-15	5366.21	35.60		0.00	5330.61
SHS-16	5362.58	33.07		0.00	5329.51
SHS-17	5364.35	34.89		0.00	5329.46
SHS-18	5373.64	41.87		0.00	5331.77
SHS-19	5378.89	45.90		0.00	5332.99

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
TANKAGE VOLUME CHANGE**

2004

Tank Number	Beginning Volume Gallons	Ending Volume Gallons	Change
102	13,029	14,984	1,955
106	8,010	-	(8,010)
21	230,133	-	(230,133)
22	427,878	-	(427,878)
Total Net Volume Change			(664,066)

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
RECOVERY WELL
VOLUME TABULATION**

2004

Well	Jan-Jul	Jul-Dec	Total
GRW-1	73,460	69,690	143,150
GRW-2	37,370	36,290	73,660
GRW-3	95,780	57,840	153,620
GRW-4	65,230	57,970	123,200
GRW-5	116,340	146,215	262,555
GRW-6	58,400	58,650	117,050
GRW-9	na	na	105,010
GRW-10	840,010	779,160	1,619,170
GRW-11	79,350	76,490	155,840
GRW-12	3,860	3,080	6,940
GRW-13	16,190	22,750	38,940
SHS-9	600,777	4,198	604,975
SHS-14	76,249	312,279	388,528
SHS-18	100,567	18,421	118,988
SHS-19	430,876	531,415	962,291
Total Volume Pumped in Gallons			4,873,917

GIANT REFINING COMPANY
BLOOMFIELD REFINERY
TOTAL VOLUME SUMMARY

2004

Total Volume of Water Recovered	4,873,917	gallons
Net Change In Storage Volume	<u>664,066</u>	gallons
Total Water Treated and Pumped to the Infiltration Gallery	<u><u>5,537,983</u></u>	gallons

GIANT

INDUSTRIES, INC.
SAN JUAN REGIONAL OFFICE

RECEIVED

OCT 05 2005

February 4, 2004

Oil Conservation Division
Environmental Bureau

Mr. William Olson
Hydrogeologist
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87504

Dear Mr. Olson:

Enclosed you will find the annual report for Giant Refining Company's Bloom field Refinery for 2003.

Please contact me if you have any questions.

Sincerely,



Tim Kinney
Remediation Project Manager

/dm

Enclosure

cc w/enc.: Luke Wethers-Giant
David Kirby-Giant
Jacque Cumbie-Giant
Stephanie Odell-BLM
Maura Hanning-EID
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111 COUNTY
ROAD 4990
BLOOMFIELD
NEW MEXICO
87413

ANNUAL DATA REPORT
GIANT BLOOMFIELD REFINERY
2003

Prepared By:

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INTRODUCTION AND SUMMARY ANNUAL REPORT 2003

INTRODUCTION

Tank 22 is being used for intermediate water storage. All water is treated by the carbon filter unit exclusively. All water was discharged into the southern infiltration field in 2003.

SUMMARY

Section 2

Section 2 contains a summary of the annual analytical results. Raw data, as received from the laboratory, is available on request as a supplement to the annual report.

Section 3

Potentiometric surface maps, as well as the adjusted water surface elevation and product thickness for each well, are included in Section 3.

Section 4

Section 4 illustrates the volume history for the year. Total volume pumped from each well, as well as current tank volumes and the reinjection volume, is reported. Additional detail, on a weekly basis, is also available if desired.

SECTION 2

The following pages show the annual analytical data for the Giant Refining Remediation Project. The data is broken down into units as described below.

	Unit of <u>Measure</u>
Total dissolved solids (180)	mg/l
Total dissolved solids (calc)	mg/l
Total alkalinity as CaCO ₃	mg/l
Total hardness as CaCO ₃	mg/l
Bicarbonate as HCO ₃	mg/l
Carbonate as CO ₃	mg/l
Chloride	mg/l
Sulfate	mg/l
Calcium	mg/l
Magnesium	mg/l
Potassium	mg/l
Sodium	mg/l

The remainder of the data is measured in ug/l.

GIANT INDUSTRIES, INC.
ONSITE REMEDIATION PROJECT
ANNUAL ANALYTICAL DATA SUMMARY
2003

	JAN	APR	JUL	OCT	DEC		
SYSTEM EFFLUENT							
Lab pH	7.1	7.5	8.03	7.2			
Lab Conductivity @25 C	2910	2800	2800	5500			
Total Dissolved Solids (Calc)	2160	2100	2200	2200			
Total Alkalinity as CaCO3	460	490	480	460			
Total Hardness as CaCO3	868	710	770	720			
Bicarbonate as HCO3	561	450	480	450			
Carbonate as CO3	ND	3	2	4			
Hydroxide	ND	ND	ND	ND			
Chloride	91	98	120	92			
Sulfate	1050	450	940	1100			
Calcium	300	240	260	250			
Magnesium	29	26	28	25			
Potassium	4	3.2	3.5	3.3			
Sodium	382	390	430	430			
HALOCARBONS							
Bromodichloromethane	ND	ND	ND	ND			
Bromoform	ND	ND	ND	ND			
Bromomethane	ND	ND	ND	ND			
Carbon Tetrachloride	ND	ND	ND	ND			
Chloroethane	ND	ND	ND	ND			
Chloroform	ND	ND	ND	ND			
Chloromethane	ND	ND	ND	ND			
Dibromochloromethane	ND	ND	ND	ND			
1,2-Dibromoethane (EDB)	ND	ND	ND	ND			
1,2-Dichlorobenzene	ND	ND	ND	ND			
1,3-Dichlorobenzene	ND	ND	ND	ND			
1,4-Dichlorobenzene	ND	ND	ND	ND			
1,1-Dichloroethane	ND	ND	ND	ND			
1,2-Dichloroethane (EDC)	ND	ND	ND	ND			
1,1-Dichloroethene	ND	ND	ND	ND			
cis-1,2-Dichloroethene	ND	ND	ND	ND			
trans-1,2-Dichloroethene	ND	ND	ND	ND			
1,2-Dichloropropane	ND	ND	ND	ND			
cis-1,3-Dichloropropene	ND	ND	ND	ND			
trans-1,3-Dichloropropene	ND	ND	ND	ND			
Methylene Chloride	ND	ND	ND	ND			
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND			
Tetrachlorethene	ND	ND	ND	ND			
1,1,1-Trichloroethane	ND	ND	ND	ND			
1,1,2-Trichloroethane	ND	ND	ND	ND			
Trichloroethene	ND	ND	ND	ND			
Trichlorofluoromethane	ND	ND	ND	ND			
Vinyl Chloride	ND	ND	ND	ND			
AROMATICS							
Benzene	ND	ND	ND	ND			
Chlorobenzene	ND	ND	ND	ND			
1,2-Dichlorobenzene	ND	ND	ND	ND			
1,3-Dichlorobenzene	ND	ND	ND	ND			
1,4-Dichlorobenzene	ND	ND	ND	ND			
Ethylbenzene	ND	ND	ND	ND			

	JAN	APR	JUL	OCT	DEC		
Methyl-t-Butyl Ether	ND	ND	ND	ND			
Toluene	ND	ND	ND	ND			
Total Xylenes	ND	ND	ND	ND			
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
SYSTEM INFLUENT							
Lab pH	7.2	7.6	7.8	7.2			
Lab Conductivity @25 C	2930	2900	2800	5400			
Total Dissolved Solids (Calc)	2160	2200	2200	2200			
Total Alkalinity as CaCO3	470	480	480	490			
Total Hardness as CaCO3	869	700	770	730			
Bicarbonate as HCO3	573	450	480	480			
Carbonate as CO3	ND	3	2	4			
Hydroxide	ND	ND	ND	ND			
Chloride	91	110	110	92			
Sulfate	1050	660	1000	1100			
Calcium	300	240	260	250			
Magnesium	29.1	25	28	26			
Potassium	3.9	3.1	3.3	3.3			
Sodium	385	390	430	430			
HALOCARBONS							
Bromodichloromethane	ND	ND	ND	ND			
Bromoform	ND	ND	ND	ND			
Bromomethane	ND	ND	ND	ND			
Carbon Tetrachloride	ND	ND	ND	ND			
Chloroethane	ND	ND	ND	ND			
Chloroform	ND	ND	ND	ND			
Chloromethane	ND	ND	ND	ND			
Dibromochloromethane	ND	ND	ND	ND			
1,2-Dibromoethane (EDB)	ND	ND	ND	ND			
1,2-Dichlorobenzene	ND	ND	ND	ND			
1,3-Dichlorobenzene	ND	ND	ND	ND			
1,4-Dichlorobenzene	ND	ND	ND	ND			
1,1-Dichloroethane	ND	ND	ND	ND			
1,2-Dichloroethane (EDC)	ND	ND	ND	ND			
1,1-Dichloroethene	ND	ND	ND	ND			
cis-1,2-Dichloroethene	ND	ND	ND	ND			
trans-1,2-Dichloroethene	ND	ND	ND	ND			
1,2-Dichloropropane	ND	ND	ND	ND			
cis-1,3-Dichloropropene	ND	ND	ND	ND			
trans-1,3-Dichloropropene	ND	ND	ND	ND			
Methylene Chloride	ND	ND	ND	ND			
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND			
Tetrachlorethene	ND	ND	ND	ND			
1,1,1-Trichloroethane	ND	ND	ND	ND			
1,1,2-Trichloroethane	ND	ND	ND	ND			
Trichloroethene	ND	ND	ND	ND			
Trichlorofluoromethane	ND	ND	ND	ND			
Vinyl Chloride	ND	ND	ND	ND			
AROMATICS							
Benzene	ND	ND	ND	ND			
Chlorobenzene	ND	ND	ND	ND			

	JAN	APR	JUL	OCT	DEC		
1,2-Dichlorobenzene	ND	ND	ND	ND			
1,3-Dichlorobenzene	ND	ND	ND	ND			
1,4-Dichlorobenzene	ND	ND	ND	ND			
Ethylbenzene	ND	ND	ND	ND			
Methyl-t-Butyl Ether	ND	ND	ND	ND			
Toluene	ND	ND	ND	ND			
Total Xylenes	ND	ND	ND	ND			
GRW-3							
Lab pH	7.1						
Lab Conductivity @25 C	4340						
Total Dissolved Solids @ 180 C	3610						
Total Alkalinity as CaCO3	200						
Total Hardness as CaCO3	1190						
Bicarbonate as HCO3	244						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	45						
Sulfate	2490						
Calcium	445						
Magnesium	20.5						
Potassium	6.7						
Sodium	637						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						

	JAN	APR	JUL	OCT	DEC			
1,4-Dichlorobenzene	ND							
Ethylbenzene	0.6							
Methyl-t-Butyl Ether	ND							
Toluene	ND							
Total Xylenes	0.5							
PAH								
1-Methylnaphthalene	ND							
2-Methylnaphthalene	ND							
Benzo(a)pyrene	ND							
Naphthalene	ND							
GRW-6								
Lab pH	7.1							
Lab Conductivity @25 C	2510							
Total Dissolved Solids @ 180 C	1660							
Total Alkalinity as CaCO3	750							
Total Hardness as CaCO3	495							
Bicarbonate as HCO3	915							
Carbonate as CO3	ND							
Hydroxide	ND							
Chloride	105							
Sulfate	431							
Calcium	153							
Magnesium	27.6							
Potassium	2.7							
Sodium	421							
HALOCARBONS								
Bromodichloromethane	ND							
Bromoform	ND							
Bromomethane	ND							
Carbon Tetrachloride	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Dibromochloromethane	ND							
1,2-Dibromoethane (EDB)	ND							
1,2-Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
1,4-Dichlorobenzene	ND							
1,1-Dichloroethane	ND							
1,2-Dichloroethane (EDC)	ND							
1,1-Dichloroethene	ND							
cis-1,2-Dichloroethene	ND							
trans-1,2-Dichloroethene	ND							
1,2-Dichloropropane	ND							
cis-1,3-Dichloropropene	ND							
trans-1,3-Dichloropropene	ND							
Methylene Chloride	ND							
1,1,2,2-Tetrachloroethane	ND							
Tetrachlorethene	ND							
1,1,1-Trichloroethane	ND							
1,1,2-Trichloroethane	ND							
Trichloroethene	ND							
Trichlorofluoromethane	ND							
Vinyl Chloride	ND							
AROMATICS								
Benzene	ND							

	JAN	APR	JUL	OCT	DEC		
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	0.5						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-17							
Lab pH	7.0				7.4		
Lab Conductivity @25 C	2500				2600		
Total Dissolved Solids (Calc)	2020				2000		
Total Alkalinity as CaCO3	216				200		
Total Hardness as CaCO3	896				860		
Bicarbonate as HCO3	264				200		
Carbonate as CO3	ND				1		
Hydroxide	ND				ND		
Chloride	58				55.0		
Sulfate	1150				1200		
Calcium	317				300		
Magnesium	25.4				27		
Potassium	2.4				3.1		
Sodium	287				300		
HALOCARBONS							
Bromodichloromethane					ND		
Bromoform					ND		
Bromomethane					ND		
Carbon Tetrachloride					ND		
Chloroethane					ND		
Chloroform					ND		
Chloromethane					ND		
Dibromochloromethane					ND		
1,2-Dibromoethane (EDB)					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
1,1-Dichloroethane					ND		
1,2-Dichloroethane (EDC)					ND		
1,1-Dichloroethene					ND		
cis-1,2-Dichloroethene					ND		
trans-1,2-Dichloroethene					ND		
1,2-Dichloropropane					ND		
cis-1,3-Dichloropropene					ND		
trans-1,3-Dichloropropene					ND		
Methylene Chloride					ND		
1,1,2,2-Tetrachloroethane					ND		
Tetrachlorethene					ND		
1,1,1-Trichloroethane					ND		
1,1,2-Trichloroethane					ND		
Tetrachlorethene					ND		

	JAN	APR	JUL	OCT	DEC		
Trichloroethene					ND		
Trichlorofluoromethane					ND		
Vinyl Chloride					ND		
AROMATICS							
Benzene					ND		
Chlorobenzene					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
Ethylbenzene					ND		
Methyl-t-Butyl Ether					ND		
Toluene					ND		
Total Xylenes					ND		
GBR-24D							
Lab pH	7.7						
Lab Conductivity @25 C	4420						
Total Dissolved Solids @ 180 C	3520						
Total Alkalinity as CaCO3	210						
Total Hardness as CaCO3	1480						
Bicarbonate as HCO3	256						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	300						
Sulfate	2000						
Calcium	505						
Magnesium	52.4						
Potassium	7.5						
Sodium	541						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						

	JAN	APR	JUL	OCT	DEC		
Vinyl Chloride	ND						
AROMATICS							
Benzene	5.9						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	0.9						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	1.2						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-30							
Lab pH	6.7						
Lab Conductivity @25 C	4770						
Total Dissolved Solids @ 180 C	3650						
Total Alkalinity as CaCO3	240						
Total Hardness as CaCO3	1540						
Bicarbonate as HCO3	293						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	401						
Sulfate	1950						
Calcium	537						
Magnesium	48.7						
Potassium	5.8						
Sodium	571						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	0.5						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						

	JAN	APR	JUL	OCT	DEC		
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	0.3						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-31							
Lab pH	7.1						
Lab Conductivity @25 C	3400						
Total Dissolved Solids @ 180 C	2730						
Total Alkalinity as CaCO3	230						
Total Hardness as CaCO3	1110						
Bicarbonate as HCO3	281						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	89						
Sulfate	1680						
Calcium	391						
Magnesium	32.4						
Potassium	3.7						
Sodium	415						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	1.2						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						

	JAN	APR	JUL	OCT	DEC		
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	1						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	0.5						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-32							
Lab pH	6.9				7.3		
Lab Conductivity @25 C	5190				5400		
Total Dissolved Solids @ 180 C	4230				4400		
Total Alkalinity as CaCO3	250				250		
Total Hardness as CaCO3	1500				1400		
Bicarbonate as HCO3	305				250		
Carbonate as CO3	ND				1		
Hydroxide	ND				ND		
Chloride	420				520		
Sulfate	2370				2400		
Calcium	520				470		
Magnesium	49.3				54		
Potassium	6.8				9.7		
Sodium	752				830		
HALOCARBONS							
Bromodichloromethane					ND		
Bromoform					ND		
Bromomethane					ND		
Carbon Tetrachloride					ND		
Chloroethane					ND		
Chloroform					1.0		
Chloromethane					ND		
Dibromochloromethane					ND		
1,2-Dibromoethane (EDB)					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
1,1-Dichloroethane					ND		
1,2-Dichloroethane (EDC)					ND		
1,1-Dichloroethene					ND		
cis-1,2-Dichloroethene					ND		

	JAN	APR	JUL	OCT	DEC		
trans-1,2-Dichloroethene					ND		
1,2-Dichloropropane					ND		
cis-1,3-Dichloropropene					ND		
trans-1,3-Dichloropropene					ND		
Methylene Chloride					ND		
1,1,2,2-Tetrachloroethane					ND		
Tetrachlorethene					ND		
1,1,1-Trichloroethane					ND		
1,1,2-Trichloroethane					ND		
Tetrachlorethene					1.7		
Trichloroethene					0.4		
Trichlorofluoromethane							
Vinyl Chloride							
AROMATICS							
Benzene					ND		
Chlorobenzene					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
Ethylbenzene					ND		
Methyl-t-Butyl Ether					ND		
Toluene					ND		
Total Xylenes					ND		
GBR-48							
Lab pH	6.9				7.3		
Lab Conductivity @25 C	6510				6500		
Total Dissolved Solids @ 180 C	5150				5000		
Total Alkalinity as CaCO3	210				230		
Total Hardness as CaCO3	1900				1600		
Bicarbonate as HCO3	258				230		
Carbonate as CO3	ND				1		
Hydroxide	ND				ND		
Chloride	925				930		
Sulfate	2480				2300		
Calcium	649				640		
Magnesium	67.4				66		
Potassium	7.1				14		
Sodium	898				950		
HALOCARBONS							
Bromodichloromethane					ND		
Bromoform					ND		
Bromomethane					ND		
Carbon Tetrachloride					ND		
Chloroethane					ND		
Chloroform					1.4		
Chloromethane					ND		
Dibromochloromethane					ND		
1,2-Dibromoethane (EDB)					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
1,1-Dichloroethane					ND		
1,2-Dichloroethane (EDC)					ND		
1,1-Dichloroethene					ND		
cis-1,2-Dichloroethene					ND		
trans-1,2-Dichloroethene					ND		

	JAN	APR	JUL	OCT	DEC		
1,2-Dichloropropane					ND		
cis-1,3-Dichloropropene					ND		
trans-1,3-Dichloropropene					ND		
Methylene Chloride					ND		
1,1,2,2-Tetrachloroethane					ND		
Tetrachlorethene					ND		
1,1,1-Trichloroethane					ND		
1,1,2-Trichloroethane					ND		
Tetrachlorethene					2.4		
Trichloroethene					1.1		
Trichlorofluoromethane					ND		
Vinyl Chloride					ND		
AROMATICS							
Benzene					ND		
Chlorobenzene					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
Ethylbenzene					ND		
Methyl-t-Butyl Ether					ND		
Toluene					ND		
Total Xylenes					ND		
GBR-49							
Lab pH	7.0				7.6		
Lab Conductivity @25 C	4160				3200		
Total Dissolved Solids @ 180 C	3360				3800		
Total Alkalinity as CaCO3	260				330		
Total Hardness as CaCO3	1290				1300		
Bicarbonate as HCO3	317				330		
Carbonate as CO3	ND				2		
Hydroxide	ND				ND		
Chloride	271				4		
Sulfate	1850				2100		
Calcium	449				450		
Magnesium	40.1				46		
Potassium	5.6				13		
Sodium	564				700		
HALOCARBONS							
Bromodichloromethane					ND		
Bromoform					1.0		
Bromomethane					ND		
Carbon Tetrachloride					ND		
Chloroethane					ND		
Chloroform					ND		
Chloromethane					ND		
Dibromochloromethane					ND		
1,2-Dibromoethane (EDB)					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
1,1-Dichloroethane					ND		
1,2-Dichloroethane (EDC)					ND		
1,1-Dichloroethene					ND		
cis-1,2-Dichloroethene					ND		
trans-1,2-Dichloroethene					ND		
1,2-Dichloropropane					ND		

	JAN	APR	JUL	OCT	DEC		
cis-1,3-Dichloropropene					ND		
trans-1,3-Dichloropropene					ND		
Methylene Chloride					ND		
1,1,2,2-Tetrachloroethane					ND		
Tetrachlorethene					ND		
1,1,1-Trichloroethane					ND		
1,1,2-Trichloroethane					ND		
Tetrachlorethene					0.5		
Trichloroethene					ND		
Trichlorofluoromethane					ND		
Vinyl Chloride					ND		
AROMATICS							
Benzene					ND		
Chlorobenzene					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
Ethylbenzene					ND		
Methyl-t-Butyl Ether					ND		
Toluene					ND		
Total Xylenes					ND		
GBR-50							
Lab pH	7.1				7.4		
Lab Conductivity @25 C	3210				3200		
Total Dissolved Solids @ 180 C	2740				2600		
Total Alkalinity as CaCO3	190				190		
Total Hardness as CaCO3	1130				1100		
Bicarbonate as HCO3	232				190		
Carbonate as CO3	ND				ND		
Hydroxide	ND				ND		
Chloride	57				51		
Sulfate	1720				1700		
Calcium	403				370		
Magnesium	30.1				33		
Potassium	4.5				10		
Sodium	405				430		
HALOCARBONS							
Bromodichloromethane					ND		
Bromoform					ND		
Bromomethane					ND		
Carbon Tetrachloride					ND		
Chloroethane					ND		
Chloroform					ND		
Chloromethane					ND		
Dibromochloromethane					ND		
1,2-Dibromoethane (EDB)					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
1,1-Dichloroethane					ND		
1,2-Dichloroethane (EDC)					ND		
1,1-Dichloroethene					ND		
cis-1,2-Dichloroethene					ND		
trans-1,2-Dichloroethene					ND		
1,2-Dichloropropane					ND		
cis-1,3-Dichloropropene					ND		
trans-1,3-Dichloropropene					ND		

	JAN	APR	JUL	OCT	DEC		
Methylene Chloride					ND		
1,1,2,2-Tetrachloroethane					ND		
Tetrachlorethene					ND		
1,1,1-Trichloroethane					ND		
1,1,2-Trichloroethane					ND		
Tetrachlorethene					ND		
Trichloroethene					0.7		
Trichlorofluoromethane					ND		
Vinyl Chloride					ND		
AROMATICS							
Benzene					ND		
Chlorobenzene					ND		
1,2-Dichlorobenzene					ND		
1,3-Dichlorobenzene					ND		
1,4-Dichlorobenzene					ND		
Ethylbenzene					ND		
Methyl-t-Butyl Ether					ND		
Toluene					ND		
Total Xylenes					ND		
GBR-51							
Lab pH	7.0						
Lab Conductivity @25 C	2920						
Total Dissolved Solids @ 180 C	2360						
Total Alkalinity as CaCO3	220						
Total Hardness as CaCO3	1100						
Bicarbonate as HCO3	268						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	64						
Sulfate	1410						
Calcium	392						
Magnesium	30.3						
Potassium	2.8						
Sodium	302						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						

	JAN	APR	JUL	OCT	DEC		
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
GBR-52							
Lab pH	7.1						
Lab Conductivity @25 C	3190						
Total Dissolved Solids @ 180 C	2610						
Total Alkalinity as CaCO3	200						
Total Hardness as CaCO3	1270						
Bicarbonate as HCO3	244						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	66						
Sulfate	1610						
Calcium	453						
Magnesium	34.6						
Potassium	2.3						
Sodium	314						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						

	JAN	APR	JUL	OCT	DEC		
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-3							
Lab pH	6.4						
Lab Conductivity @25 C	4630						
Total Dissolved Solids @ 180 C	3930						
Total Alkalinity as CaCO3	230						
Total Hardness as CaCO3	1950						
Bicarbonate as HCO3	281						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	263						
Sulfate	2330						
Calcium	632						
Magnesium	89.9						
Potassium	11						
Sodium	448						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						

	JAN	APR	JUL	OCT	DEC		
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-4							
Lab pH	7.0						
Lab Conductivity @25 C	3260						
Total Dissolved Solids (Calc)	2720						
Total Alkalinity as CaCO3	200						
Total Hardness as CaCO3	1330						
Bicarbonate as HCO3	244						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	64						
Sulfate	1700						
Calcium	474						
Magnesium	37.1						
Potassium	3.6						
Sodium	303						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						

	JAN	APR	JUL	OCT	DEC		
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
	ND						
SHS-6							
Lab pH	7.0						
Lab Conductivity @25 C	2870						
Total Dissolved Solids @ 180 C	2280						
Total Alkalinity as CaCO3	220						
Total Hardness as CaCO3	1060						
Bicarbonate as HCO3	268						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	63						
Sulfate	1360						
Calcium	377						
Magnesium	29.5						
Potassium	2.8						
Sodium	296						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						

	JAN	APR	JUL	OCT	DEC		
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-9							
Lab pH	7.1						
Lab Conductivity @25 C	2640						
Total Dissolved Solids @ 180 C	1660						
Total Alkalinity as CaCO3	970						
Total Hardness as CaCO3	531						
Bicarbonate as HCO3	1180						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	126						
Sulfate	241						
Calcium	162						
Magnesium	30.5						
Potassium	2.5						
Sodium	442						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						

	JAN	APR	JUL	OCT	DEC		
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	1.5						
SHS-10							
Lab pH	7.0						
Lab Conductivity @25 C	3090						
Total Dissolved Solids (Calc)	2320						
Total Alkalinity as CaCO3	440						
Total Hardness as CaCO3	956						
Bicarbonate as HCO3	537						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	112						
Sulfate	1160						
Calcium	295						
Magnesium	53.2						
Potassium	9.0						
Sodium	394						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						

	JAN	APR	JUL	OCT	DEC		
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	1.5						
SHS-12							
Lab pH	7.0						
Lab Conductivity @25 C	2980						
Total Dissolved Solids @ 180 C	2130						
Total Alkalinity as CaCO3	510						
Total Hardness as CaCO3	771						
Bicarbonate as HCO3	622						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	116						
Sulfate	935						
Calcium	275						
Magnesium	20.6						
Potassium	2.9						
Sodium	426						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						

	JAN	APR	JUL	OCT	DEC		
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-13							
Lab pH	6.7						
Lab Conductivity @25 C	4000						
Total Dissolved Solids @ 180 C	3210						
Total Alkalinity as CaCO3	650						
Total Hardness as CaCO3	1700						
Bicarbonate as HCO3	793						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	189						
Sulfate	1570						
Calcium	592						
Magnesium	52.9						
Potassium	3.8						
Sodium	386						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						

	JAN	APR	JUL	OCT	DEC		
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-14							
Lab pH	7.1						
Lab Conductivity @25 C	2590						
Total Dissolved Solids @ 180 C	2050						
Total Alkalinity as CaCO3	290						
Total Hardness as CaCO3	1100						
Bicarbonate as HCO3	354						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	57						
Sulfate	1120						
Calcium	381						
Magnesium	37.2						
Potassium	47.2						
Sodium	216						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							

	JAN	APR	JUL	OCT	DEC		
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-15							
Lab pH	7.1						
Lab Conductivity @25 C	2340						
Total Dissolved Solids (Calc)	1850						
Total Alkalinity as CaCO3	276						
Total Hardness as CaCO3	949						
Bicarbonate as HCO3	337						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	55						
Sulfate	995						
Calcium	324						
Magnesium	34.2						
Potassium	4.2						
Sodium	213						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						

	JAN	APR	JUL	OCT	DEC		
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-16							
Lab pH	7.1						
Lab Conductivity @25 C	2980						
Total Dissolved Solids (Calc)	2550						
Total Alkalinity as CaCO3	280						
Total Hardness as CaCO3	1480						
Bicarbonate as HCO3	342						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	87						
Sulfate	1440						
Calcium	417						
Magnesium	106						
Potassium	7.0						
Sodium	190						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						

	JAN	APR	JUL	OCT	DEC		
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-17							
Lab pH	7.0						
Lab Conductivity @25 C	3340						
Total Dissolved Solids (Calc)	2510						
Total Alkalinity as CaCO3	280						
Total Hardness as CaCO3	1070						
Bicarbonate as HCO3	342						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	200						
Sulfate	1140						
Calcium	357						
Magnesium	43.3						
Potassium	4.7						
Sodium	386						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						

	JAN	APR	JUL	OCT	DEC		
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
<u>SHS-18</u>							
This well was not sampled due to free product.							

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

JANUARY, 2003

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	61.24	61.24	0.00	5333.06
GRW-2	5391.28	44.81	44.81	0.00	5346.47
GRW-3	5388.77	47.83	47.83	0.00	5340.94
GRW-4	5390.02	52.32	52.32	0.00	5337.70
GRW-5	5390.56	52.20	52.20	0.00	5338.36
GRW-6	5390.81	48.96	48.96	0.00	5341.85
GRW-10	5395.02	46.10	44.81	1.29	5349.95
GRW-11	5397.85	51.72	51.72	0.00	5346.13
GRW-12	5397.24	44.53	44.53	0.00	5352.71
GRW-13	5396.90	53.05	53.05	0.00	5343.85
GBR-5	5395.07	25.39	25.39	0.00	5369.68
GBR-6	5395.70	53.03	53.03	0.00	5342.67
GBR-7	5395.85	29.73	29.66	0.07	5366.18
GBR-8	5390.50	42.64	42.64	0.00	5347.86
GBR-9	5389.92	47.60	47.60	0.00	5342.32
GBR-10	5390.57	42.34	42.34	0.00	5348.23
GBR-11	5389.43	42.65	42.52	0.13	5346.88
GBR-13	5393.04	42.54	42.52	0.02	5350.52
GBR-15	5397.99	40.45	40.45	0.00	5357.54
GBR-18	5421.68	34.85	34.85	0.00	5386.83
GBR-19	5393.83	43.18	42.12	1.06	5351.50
GBR-20	5393.47	37.62	37.53	0.09	5355.92
GBR-21S	5400.65	40.84	40.84	0.00	5359.81
GBR-21D	5400.19	29.42	29.38	0.04	5370.80
GBR-22	5395.91	40.35	40.35	0.00	5355.56
GBR-23	5403.72	29.20	29.18	0.02	5372.19
GBR-24S	5396.08	31.55	31.55	0.00	5362.41
GBR-24D	5396.77	33.67	33.67	0.00	5363.10
GBR-25	5396.72	37.18	37.15	0.03	5359.59
GBR-26	5395.59	37.66	37.66	0.00	5357.93
GBR-30	5396.58	36.12	36.12	0.00	5360.46
GBR-31	5394.86	38.02	38.02	0.00	5356.84
GBR-33	5396.28	40.91	40.91	0.00	5355.37
GBR-34	5394.00	38.38	38.10	0.28	5355.84
GBR-35	5393.66	38.40	38.38	0.02	5355.28
GBR-39	5397.55	39.80	39.80	0.00	5357.75
GBR-40	5400.76	32.80	32.80	0.00	5367.96
GBR-41	5396.35	28.08	28.08	0.00	5368.27
GBR-51	5389.68	43.17	43.17	0.00	5346.51
GBR-52	5387.74	41.48	41.48	0.00	5346.26

GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE
JANUARY, 2003
Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.25	40.20	0.05	5343.33
SHS-2	5381.66	37.03	37.03	0.00	5344.63
SHS-3	5383.33	36.70	36.70	0.00	5346.63
SHS-4	5383.62	42.54	42.54	0.00	5341.08
SHS-5	5378.36	39.42	39.42	0.00	5338.94
SHS-6	5378.17	39.66	39.66	0.00	5338.51
SHS-8	5380.25	40.81	30.99	9.82	5347.30
SHS-9	5380.79	39.10	39.10	0.00	5341.69
SHS-10	5373.80	37.20	37.20	0.00	5336.60
SHS-12	5373.94	41.67	41.67	0.00	5332.27
SHS-13	5367.81	37.19	37.19	0.00	5330.62
SHS-14	5367.07	45.98	45.98	0.00	5321.09
SHS-15	5366.21	34.15	34.15	0.00	5332.06
SHS-16	5362.58	31.96	31.96	0.00	5330.62
SHS-17	5364.35	33.93	33.93	0.00	5330.42
SHS-18	5373.64	43.95	43.95	0.00	5329.69
SHS-19	5378.89	41.30	41.30	0.00	5337.59

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

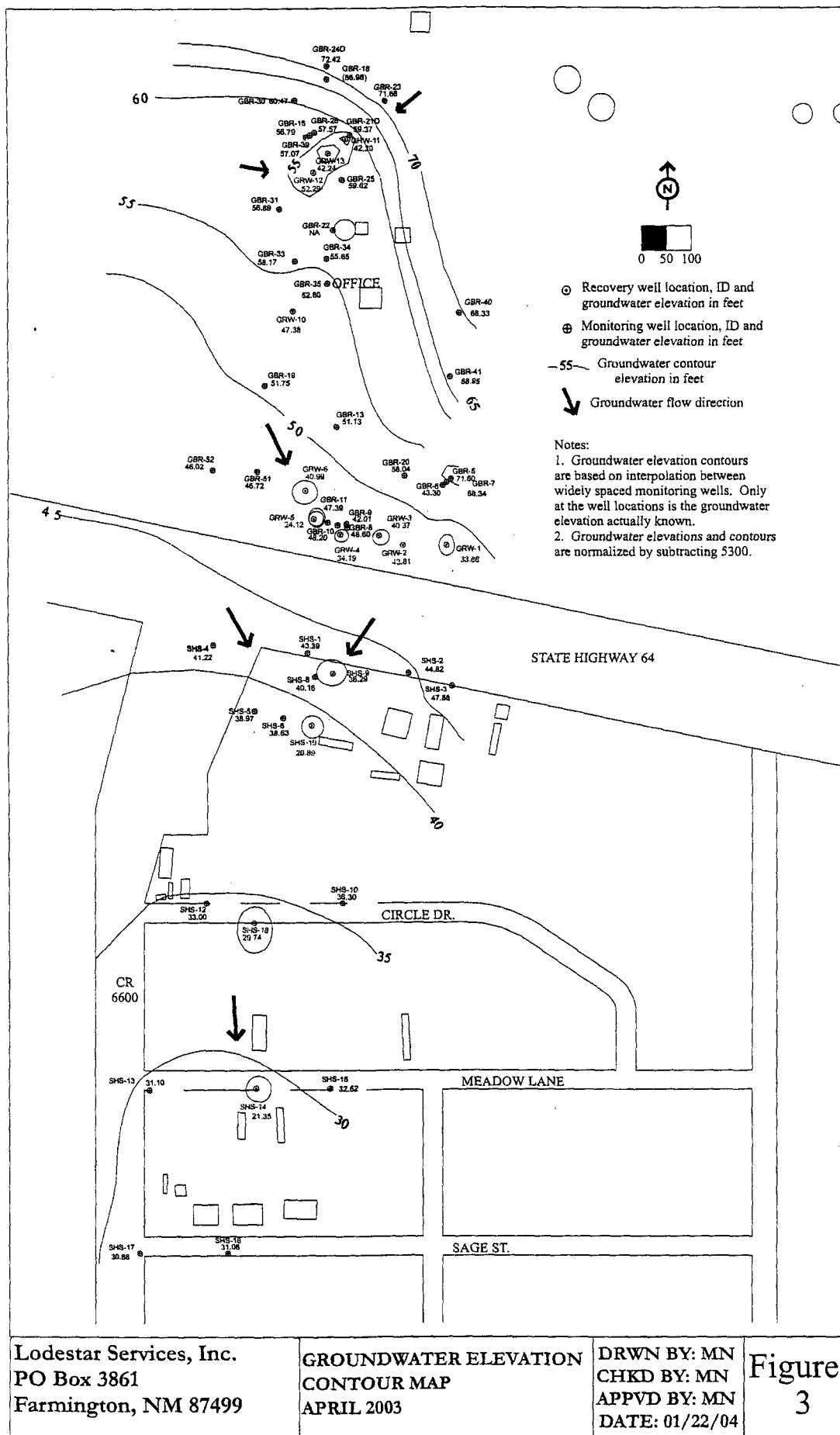
APRIL, 2003

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	60.42	60.42	0.00	5333.88
GRW-2	5391.28	47.47	47.47	0.00	5343.81
GRW-3	5388.77	48.40	48.40	0.00	5340.37
GRW-4	5390.02	55.83	55.83	0.00	5334.19
GRW-5	5390.56	66.44	66.44	0.00	5324.12
GRW-6	5390.81	49.82	49.82	0.00	5340.99
GRW-10	5395.02	48.80	47.35	1.45	5347.38
GRW-11	5397.85	55.65	55.65	0.00	5342.20
GRW-12	5397.24	44.95	44.95	0.00	5352.29
GRW-13	5396.90	54.66	54.66	0.00	5342.24
GBR-5	5395.07	23.47	23.47	0.00	5371.60
GBR-6	5395.70	52.40	52.40	0.00	5343.30
GBR-7	5395.85	27.55	27.50	0.05	5368.34
GBR-8	5390.50	41.90	41.90	0.00	5348.60
GBR-9	5389.92	47.91	47.91	0.00	5342.01
GBR-10	5390.57	42.37	42.37	0.00	5348.20
GBR-11	5389.43	42.10	42.02	0.08	5347.39
GBR-13	5393.04	41.91	41.91	0.00	5351.13
GBR-15	5397.99	41.20	41.20	0.00	5356.79
GBR-18	5421.68	34.70	34.70	0.00	5386.98
GBR-19	5393.83	42.08	42.08	0.00	5351.75
GBR-20	5393.47	35.43	35.43	0.00	5358.04
GBR-21S	5400.65	30.58	30.58	0.00	5370.07
GBR-21D	5400.19	40.82	40.82	0.00	5359.37
GBR-22	5395.91	0.00	0.00	0.00	5395.91
GBR-23	5403.72	26.50	26.50	0.00	5371.66
GBR-24S	5396.08	32.06	32.06	0.00	5361.73
GBR-24D	5396.77	34.35	34.35	0.00	5362.42
GBR-25	5396.72	37.10	37.10	0.00	5359.62
GBR-26	5395.59	38.02	38.02	0.00	5357.57
GBR-30	5396.58	36.11	36.11	0.00	5360.47
GBR-31	5394.86	37.97	37.97	0.00	5356.89
GBR-33	5396.28	38.11	38.11	0.00	5358.17
GBR-34	5394.00	38.35	38.35	0.00	5355.65
GBR-35	5393.66	40.86	40.86	0.00	5352.80
GBR-39	5397.55	40.48	40.48	0.00	5357.07
GBR-40	5400.76	32.43	32.43	0.00	5368.33
GBR-41	5396.35	27.40	27.40	0.00	5368.95
GBR-51	5389.68	42.96	42.96	0.00	5346.72
GBR-52	5387.74	41.72	41.72	0.00	5346.02

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 APRIL, 2003
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.15	40.15	0.00	5343.39
SHS-2	5381.66	36.84	36.84	0.00	5344.82
SHS-3	5383.33	35.45	35.45	0.00	5347.88
SHS-4	5383.62	42.40	42.40	0.00	5341.22
SHS-5	5378.36	39.39	39.39	0.00	5338.97
SHS-6	5378.17	39.54	39.54	0.00	5338.63
SHS-8	5380.25	40.75	39.92	0.83	5340.16
SHS-9	5380.79	44.50	44.50	0.00	5336.29
SHS-10	5373.80	37.50	37.50	0.00	5336.30
SHS-12	5373.94	40.94	40.94	0.00	5333.00
SHS-13	5367.81	36.71	36.71	0.00	5331.10
SHS-14	5367.07	45.72	45.72	0.00	5321.35
SHS-15	5366.21	33.69	33.69	0.00	5332.52
SHS-16	5362.58	31.52	31.52	0.00	5331.06
SHS-17	5364.35	33.47	33.47	0.00	5330.88
SHS-18	5373.64	43.90	43.90	0.00	5329.74
SHS-19	5378.89	52.00	52.00	0.00	5326.89

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



Lodestar Services, Inc.
PO Box 3861
Farmington, NM 87499

GROUNDWATER ELEVATION
CONTOUR MAP
APRIL 2003

DRWN BY: MN
CHKD BY: MN
APPVD BY: MN
DATE: 01/22/04

Figure
3

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

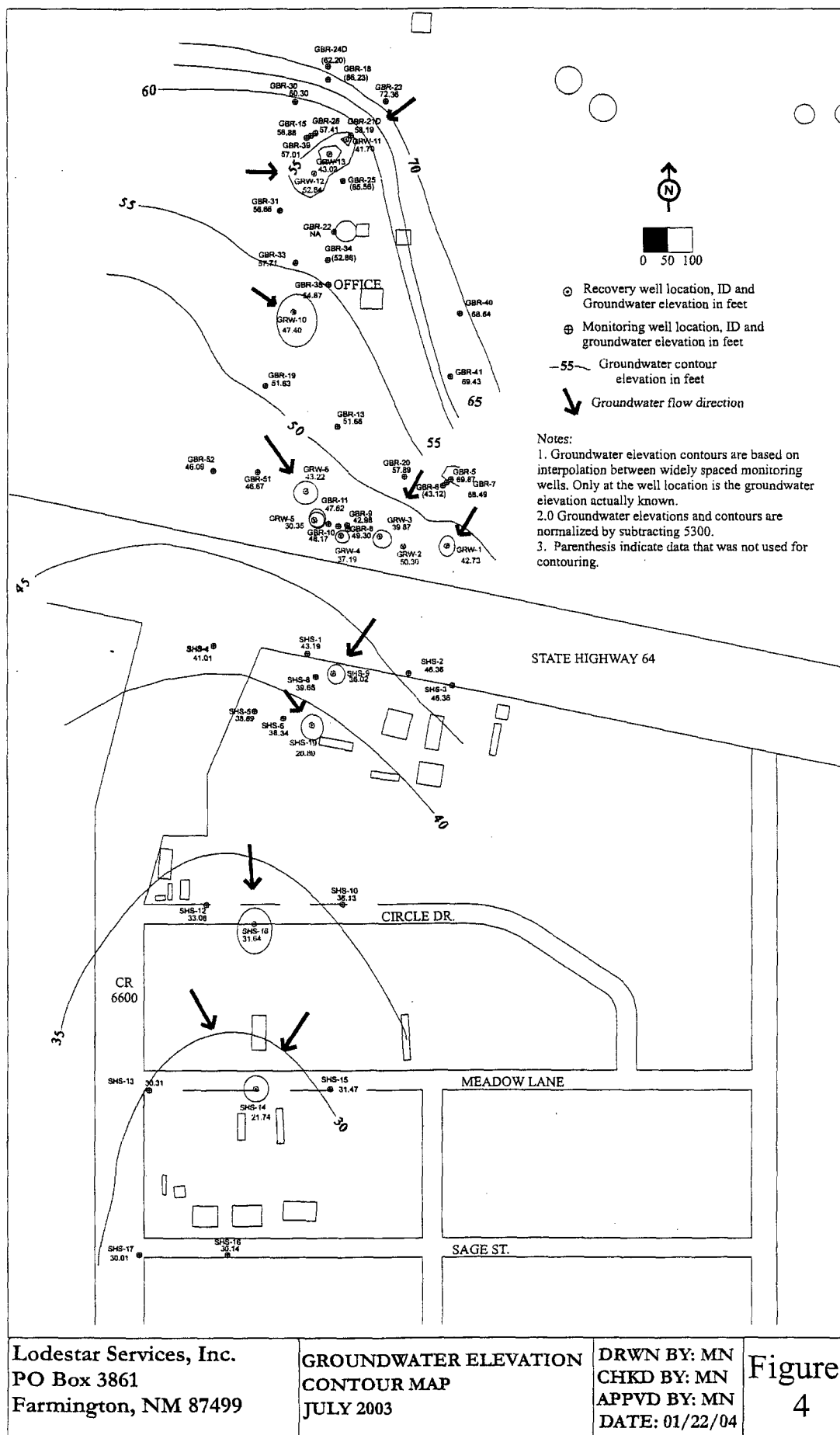
JULY, 2003

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	51.57	51.57	0.00	5342.73
GRW-2	5391.28	40.98	40.98	0.00	5350.30
GRW-3	5388.77	48.90	48.90	0.00	5339.87
GRW-4	5390.02	52.83	52.83	0.00	5337.19
GRW-5	5390.56	60.21	60.21	0.00	5330.35
GRW-6	5390.81	47.59	47.59	0.00	5343.22
GRW-10	5395.02	48.80	47.33	1.47	5347.40
GRW-11	5397.85	56.15	56.15	0.00	5341.70
GRW-12	5397.24	44.40	44.40	0.00	5352.84
GRW-13	5396.90	53.88	53.88	0.00	5343.02
GBR-5	5395.07	25.20	25.20	0.00	5369.87
GBR-6	5395.70	52.58	52.58	0.00	5343.12
GBR-7	5395.85	27.38	27.35	0.03	5368.49
GBR-8	5390.50	41.20	41.20	0.00	5349.30
GBR-9	5389.92	46.94	46.94	0.00	5342.98
GBR-10	5390.57	42.40	42.40	0.00	5348.17
GBR-11	5389.43	41.83	41.81	0.02	5347.62
GBR-13	5393.04	41.38	41.38	0.00	5351.66
GBR-15	5397.99	41.11	41.11	0.00	5356.88
GBR-18	5421.68	35.45	35.45	0.00	5386.23
GBR-19	5393.83	42.20	42.20	0.00	5351.63
GBR-20	5393.47	35.58	35.58	0.00	5357.89
GBR-21S	5400.65	29.68	29.43	0.25	5371.17
GBR-21D	5400.19	42.00	42.00	0.00	5358.19
GBR-22	5395.91	0.00	0.00	0.00	5395.91
GBR-23	5403.72	30.83	29.76	1.07	5372.36
GBR-24S	5396.08	32.22	32.22	0.00	5361.51
GBR-24D	5396.77	34.57	34.57	0.00	5362.20
GBR-25	5396.72	45.45	37.51	7.94	5365.56
GBR-26	5395.59	38.18	38.18	0.00	5357.41
GBR-30	5396.58	36.28	36.28	0.00	5360.30
GBR-31	5394.86	38.20	38.20	0.00	5356.66
GBR-33	5396.28	39.44	38.35	1.09	5357.71
GBR-34	5394.00	41.14	41.14	0.00	5352.86
GBR-35	5393.66	39.55	38.60	0.95	5354.87
GBR-39	5397.55	40.54	40.54	0.00	5357.01
GBR-40	5400.76	32.12	32.12	0.00	5368.64
GBR-41	5396.35	26.92	26.92	0.00	5369.43
GBR-51	5389.68	43.01	43.01	0.00	5346.67
GBR-52	5387.74	41.65	41.65	0.00	5346.09

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 JULY, 2003
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.40	40.34	0.06	5343.19
SHS-2	5381.66	35.30	35.30	0.00	5346.36
SHS-3	5383.33	36.97	36.97	0.00	5346.36
SHS-4	5383.62	42.61	42.61	0.00	5341.01
SHS-5	5378.36	39.67	39.67	0.00	5338.69
SHS-6	5378.17	39.83	39.83	0.00	5338.34
SHS-8	5380.25	40.98	40.50	0.48	5339.65
SHS-9	5380.79	44.77	44.77	0.00	5336.02
SHS-10	5373.80	37.67	37.67	0.00	5336.13
SHS-12	5373.94	40.88	40.88	0.00	5333.06
SHS-13	5367.81	37.50	37.50	0.00	5330.31
SHS-14	5367.07	45.33	45.33	0.00	5321.74
SHS-15	5366.21	34.74	34.74	0.00	5331.47
SHS-16	5362.58	32.44	32.44	0.00	5330.14
SHS-17	5364.35	34.34	34.34	0.00	5330.01
SHS-18	5373.64	42.00	42.00	0.00	5331.64
SHS-19	5378.89	52.00	52.00	0.00	5326.89

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



Lodestar Services, Inc.
PO Box 3861
Farmington, NM 87499

GROUNDWATER ELEVATION
CONTOUR MAP
JULY 2003

DRWN BY: MN
CHKD BY: MN
APPVD BY: MN
DATE: 01/22/04

Figure
4

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

OCTOBER, 2003

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	61.23	61.23	0.00	5333.07
GRW-2	5391.28	43.10	43.10	0.00	5348.18
GRW-3	5388.77	52.70	52.70	0.00	5336.07
GRW-4	5390.02	56.76	56.76	0.00	5333.26
GRW-5	5390.56	63.28	63.28	0.00	5327.28
GRW-6	5390.81	43.40	43.40	0.00	5347.41
GRW-10	5395.02	48.15	46.65	1.50	5348.07
GRW-11	5397.85	60.02	60.02	0.00	5337.83
GRW-12	5397.24	44.45	44.45	0.00	5352.79
GRW-13	5396.90	56.90	56.90	0.00	5340.00
GBR-5	5395.07	26.28	26.28	0.00	5368.79
GBR-6	5395.70	52.32	52.32	0.00	5343.38
GBR-7	5395.85	28.65	28.60	0.05	5367.24
GBR-8	5390.50	41.66	41.66	0.00	5348.84
GBR-9	5389.92	47.65	47.65	0.00	5342.27
GBR-10	5390.57	42.40	42.40	0.00	5348.17
GBR-11	5389.43	42.12	42.05	0.07	5347.37
GBR-13	5393.04	41.90	41.90	0.00	5351.14
GBR-15	5397.99	41.10	41.10	0.00	5356.89
GBR-18	5421.68	35.85	35.85	0.00	5385.83
GBR-19	5393.83	42.40	42.38	0.02	5351.45
GBR-20	5393.47	37.10	37.05	0.05	5356.41
GBR-21S	5400.65	26.55	26.53	0.02	5374.12
GBR-21D	5400.19	44.10	44.10	0.00	5356.09
GBR-22	5395.91	0.00	0.00	0.00	5395.91
GBR-23	5403.72	30.00	29.12	0.88	5371.90
GBR-24S	5396.08	33.30	32.52	0.78	5372.28
GBR-24D	5396.77	24.42	24.42	0.00	5372.35
GBR-25	5396.72	38.28	32.50	5.78	5368.84
GBR-26	5395.59	38.20	38.20	0.00	5357.39
GBR-30	5396.58	36.35	36.35	0.00	5360.23
GBR-31	5394.86	38.38	38.38	0.00	5356.48
GBR-33	5396.28	44.26	44.26	0.00	5352.02
GBR-34	5394.00	39.65	38.50	1.15	5355.27
GBR-35	5393.66	39.90	38.65	1.25	5354.76
GBR-39	5397.55	40.36	40.36	0.00	5357.19
GBR-40	5400.76	33.10	33.10	0.00	5367.66
GBR-41	5396.35	27.90	27.90	0.00	5368.45
GBR-51	5389.68	43.28	43.28	0.00	5346.40
GBR-52	5387.74	41.88	41.88	0.00	5345.86

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 OCTOBER, 2003
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.54	40.51	0.03	5343.02
SHS-2	5381.66	35.43	35.43	0.00	5346.23
SHS-3	5383.33	37.05	37.05	0.00	5346.28
SHS-4	5383.62	42.75	42.75	0.00	5340.87
SHS-5	5378.36	39.84	39.84	0.00	5338.52
SHS-6	5378.17	40.00	40.00	0.00	5338.17
SHS-8	5380.25	41.21	40.15	1.06	5339.89
SHS-9	5380.79	43.60	43.60	0.00	5337.19
SHS-10	5373.80	38.00	38.00	0.00	5335.80
SHS-12	5373.94	41.28	41.28	0.00	5332.66
SHS-13	5367.81	37.98	37.98	0.00	5329.83
SHS-14	5367.07	45.41	45.41	0.00	5321.66
SHS-15	5366.21	35.12	35.12	0.00	5331.09
SHS-16	5362.58	32.78	32.78	0.00	5329.80
SHS-17	5364.35	34.68	34.68	0.00	5329.67
SHS-18	5373.64	39.80	39.80	0.00	5333.84
SHS-19	5378.89	48.40	48.40	0.00	5330.49

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
VOLUME CHANGE**

2003

Tank Number	Beginning Volume	Ending Volume	Net Change
102	13,792	13,029	(763)
106	8,010	8,010	0
21	230,133	230,133	0
22	217,773	427,878	210,105
Total Net Volume Change			209,342

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
RECOVERY WELL
VOLUME TABULATION**

2003

Well	January- June	July- December	Total
GRW-1	52,510	92,330	144,840
GRW-2	33,930	56,810	90,740
GRW-3	38,920	112,150	151,070
GRW-4	43,350	63,760	107,110
GRW-5	84,710	129,740	214,450
GRW-6	106,780	202,960	309,740
GRW-9	66,510	86,940	153,450
GRW-10	699,610	1,024,120	1,723,730
GRW-11	98,110	125,150	223,260
GRW-12	13,410	13,860	27,270
GRW-13	14,750	17,110	31,860
SHS-9	9,209	15,299	24,508
SHS-14	465,755	477,950	943,705
SHS-18	202,029	117,344	319,373
SHS-19	321,331	947,470	1,268,801
TOTAL VOLUME PUMPED IN GALLONS			5,733,907

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
TOTAL VOLUME SUMMARY**

2003

Total Volume Of Water Recovered	5,733,907
Net Change In Storage Volume	<u>209,342</u>
Total Water Treated And Pumped To The Infiltration Gallery	<u><u>5,524,565</u></u>

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Oil Conservation Division
Environmental Bureau

ANNUAL DATA REPORT

GIANT BLOOMFIELD REFINERY

2002

Prepared By:

GIANT REFINING COMPANY

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Potentiometric Surface Maps.....	Section 3
Total Volume History	Section 4

INTRODUCTION AND SUMMARY ANNUAL REPORT 2002

INTRODUCTION

Tank 22 is being used for intermediate water storage. All water is treated by the carbon filter unit exclusively.

SUMMARY

Section 2

Section 2 contains a summary of the annual analytical results. Raw data, as received from the laboratory, is available on request as a supplement to the annual report.

Section 3

Potentiometric surface maps, as well as the adjusted water surface elevation and product thickness for each well, are included in Section 3.

Section 4

Section 4 illustrates the volume history for the year. Total volume pumped from each well, as well as current tank volumes and the reinjection volume, is reported. Additional detail, on a weekly basis, is also available if desired.

SECTION 2

The following pages show the annual analytical data for the Giant Refining Remediation Project. The data is broken down into units as described below.

	<u>Unit of Measure</u>
Total dissolved solids (180)	mg/l
Total dissolved solids (calc)	mg/l
Total alkalinity as CaCO ₃	mg/l
Total hardness as CaCO ₃	mg/l
Bicarbonate as HCO ₃	mg/l
Carbonate as CO ₃	mg/l
Chloride	mg/l
Sulfate	mg/l
Calcium	mg/l
Magnesium	mg/l
Potassium	mg/l
Sodium	mg/l

The remainder of the data is measured in ug/l.

GIANT INDUSTRIES, INC.
ONSITE REMEDIATION PROJECT
ANNUAL ANALYTICAL DATA SUMMARY
2002

	JAN	APR	JUL	AUG	OCT	NOV	DEC
SYSTEM EFFLUENT							
Lab pH	7.2	7.0	7		7		
Lab Conductivity @25 C	3340	2840	2780		2850		
Total Dissolved Solids (Calc)	2300	2250	2230		2230		
Total Alkalinity as CaCO3	490	401	460		450		
Total Hardness as CaCO3	815	818	816		834		
Bicarbonate as HCO3	598	489	561		549		
Carbonate as CO3	ND	ND	ND		ND		
Hydroxide	ND	ND	ND		ND		
Chloride	91	91	85		85		
Sulfate	1110	1280	1190		1190		
Calcium	281	282	281		287		
Magnesium	27.5	27.8	28.1		28.7		
Potassium	2.5	2.5	2.4		2.5		
Sodium	412	398	387		409		
HALOCARBONS							
Bromodichloromethane	ND	ND	ND			ND	
Bromoform	ND	ND	ND			ND	
Bromomethane	ND	ND	ND			ND	
Carbon Tetrachloride	ND	ND	ND			ND	
Chloroethane	ND	ND	ND			ND	
Chloroform	ND	ND	ND			ND	
Chloromethane	ND	ND	ND			ND	
Dibromochloromethane	ND	ND	ND			ND	
1,2-Dibromoethane (EDB)	ND	ND	ND			ND	
1,2-Dichlorobenzene	ND	ND	ND			ND	
1,3-Dichlorobenzene	ND	ND	ND			ND	
1,4-Dichlorobenzene	ND	ND	ND			ND	
1,1-Dichloroethane	ND	ND	ND			ND	
1,2-Dichloroethane (EDC)	ND	ND	ND			ND	
1,1-Dichloroethene	ND	ND	ND			ND	
cis-1,2-Dichloroethene	ND	ND	ND			ND	
trans-1,2-Dichloroethene	ND	ND	ND			ND	
1,2-Dichloropropane	ND	ND	ND			ND	
cis-1,3-Dichloropropene	ND	ND	ND			ND	
trans-1,3-Dichloropropene	ND	ND	ND			ND	
Methylene Chloride	ND	ND	ND			ND	
1,1,2,2-Tetrachloroethane	ND	ND	ND			ND	
Tetrachlorethene	ND	ND	ND			ND	
1,1,1-Trichloroethane	ND	ND	ND			ND	
1,1,2-Trichloroethane	ND	ND	ND			ND	
Trichloroethene	ND	ND	ND			ND	
Trichlorofluoromethane	ND	ND	ND			ND	
Vinyl Chloride	ND	ND	ND			ND	
AROMATICS							
Benzene	ND	ND	ND			ND	
Chlorobenzene	ND	ND	ND			ND	
1,2-Dichlorobenzene	ND	ND	ND			ND	
1,3-Dichlorobenzene	ND	ND	ND			ND	
1,4-Dichlorobenzene	ND	ND	ND			ND	
Ethylbenzene	ND	ND	ND			ND	

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Methyl-t-Butyl Ether	ND	ND	ND			ND	
Toluene	ND	ND	ND			ND	
Total Xylenes	ND	ND	ND			ND	
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
SYSTEM INFLUENT							
Lab pH	7.1	7.0	7.0		7.1		
Lab Conductivity @25 C	3280	2850	2820		2870		
Total Dissolved Solids (Calc)	2280	2250	2230		2230		
Total Alkalinity as CaCO3	440	396	450		440		
Total Hardness as CaCO3	746	779	788		756		
Bicarbonate as HCO3	537	483	549		537		
Carbonate as CO3	ND	ND	ND		ND		
Hydroxide	ND	ND	ND		ND		
Chloride	91	93	85		85		
Sulfate	1080	1230	1190		1190		
Calcium	254	268	270		257		
Magnesium	27.5	26.7	27.9		27.8		
Potassium	2.6	2.4	2.4		2.4		
Sodium	414	382	397		387		
HALOCARBONS							
Bromodichloromethane	ND	ND	ND			ND	
Bromoform	ND	ND	ND			ND	
Bromomethane	ND	ND	ND			ND	
Carbon Tetrachloride	ND	ND	ND			ND	
Chloroethane	ND	ND	ND			ND	
Chloroform	ND	ND	ND			ND	
Chloromethane	ND	ND	ND			ND	
Dibromochloromethane	ND	ND	ND			ND	
1,2-Dibromoethane (EDB)	ND	ND	ND			ND	
1,2-Dichlorobenzene	ND	ND	ND			ND	
1,3-Dichlorobenzene	ND	ND	ND			ND	
1,4-Dichlorobenzene	ND	ND	ND			ND	
1,1-Dichloroethane	ND	ND	ND			ND	
1,2-Dichloroethane (EDC)	ND	ND	ND			ND	
1,1-Dichloroethene	ND	ND	ND			ND	
cis-1,2-Dichloroethene	ND	ND	ND			ND	
trans-1,2-Dichloroethene	ND	ND	ND			ND	
1,2-Dichloropropane	ND	ND	ND			ND	
cis-1,3-Dichloropropene	ND	ND	ND			ND	
trans-1,3-Dichloropropene	ND	ND	ND			ND	
Methylene Chloride	ND	ND	ND			ND	
1,1,2,2-Tetrachloroethane	ND	ND	ND			ND	
Tetrachlorethene	ND	ND	ND			ND	
1,1,1-Trichloroethane	ND	ND	ND			ND	
1,1,2-Trichloroethane	ND	ND	ND			ND	
Trichloroethene	ND	ND	ND			ND	
Trichlorofluoromethane	ND	ND	ND			ND	
Vinyl Chloride	ND	ND	ND			ND	
AROMATICS							
Benzene	ND	ND	ND			ND	
Chlorobenzene	ND	ND	ND			ND	

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,2-Dichlorobenzene	ND	ND	ND			ND	
1,3-Dichlorobenzene	ND	ND	ND			ND	
1,4-Dichlorobenzene	ND	ND	ND			ND	
Ethylbenzene	ND	ND	ND			ND	
Methyl-t-Butyl Ether	ND	ND	ND			ND	
Toluene	ND	ND	ND			ND	
Total Xylenes	ND	ND	ND			ND	
GRW-3							
Lab pH	7.0						
Lab Conductivity @25 C	4140						
Total Dissolved Solids @ 180 C	2960						
Total Alkalinity as CaCO3	440						
Total Hardness as CaCO3	850						
Bicarbonate as HCO3	537						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	60						
Sulfate	1670						
Calcium	308						
Magnesium	19.9						
Potassium	4.0						
Sodium	581						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	0.9						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	0.5						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GRW-6							
Lab pH	7.3						
Lab Conductivity @25 C	2520						
Total Dissolved Solids @ 180 C	1450						
Total Alkalinity as CaCO3	890						
Total Hardness as CaCO3	312						
Bicarbonate as HCO3	1090						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	106						
Sulfate	172						
Calcium	91.1						
Magnesium	20.6						
Potassium	1.5						
Sodium	406						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane-(EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	1.1						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	0.5						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-17							
Lab pH							7.0
Lab Conductivity @25 C							2500
Total Dissolved Solids (Calc)							2020
Total Alkalinity as CaCO3							216
Total Hardness as CaCO3							896
Bicarbonate as HCO3							264
Carbonate as CO3							ND
Hydroxide							ND
Chloride							58
Sulfate							1150
Calcium							317
Magnesium							25.4
Potassium							2.4
Sodium							287
HALOCARBONS							
Bromodichloromethane							ND
Bromoform							ND
Bromomethane							ND
Carbon Tetrachloride							ND
Chloroethane							ND
Chloroform							ND
Chloromethane							ND
Dibromochloromethane							ND
1,2-Dibromoethane (EDB)							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
1,1-Dichloroethane							ND
1,2-Dichloroethane (EDC)							ND
1,1-Dichloroethene							ND
cis-1,2-Dichloroethene							ND
trans-1,2-Dichloroethene							ND
1,2-Dichloropropane							ND
cis-1,3-Dichloropropene							ND
trans-1,3-Dichloropropene							ND
Methylene Chloride							ND
1,1,2,2-Tetrachloroethane							ND
Tetrachlorethene							ND
1,1,1-Trichloroethane							ND

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,1,2-Trichloroethane							ND
Trichloroethene							ND
Trichlorofluoromethane							ND
Vinyl Chloride							ND
AROMATICS							
Benzene							ND
Chlorobenzene							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
Ethylbenzene							ND
Methyl-t-Butyl Ether							ND
Toluene							ND
Total Xylenes							ND
GBR-24D							
Lab pH	7.7						
Lab Conductivity @25 C	4670						
Total Dissolved Solids @ 180 C	3540						
Total Alkalinity as CaCO3	230						
Total Hardness as CaCO3	1380						
Bicarbonate as HCO3	281						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	379						
Sulfate	1810						
Calcium	467						
Magnesium	53.5						
Potassium	6.0						
Sodium	552						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	21						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	0.5						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-30							
Lab pH	6.6						
Lab Conductivity @25 C	4860						
Total Dissolved Solids @ 180 C	3680						
Total Alkalinity as CaCO3	240						
Total Hardness as CaCO3	1370						
Bicarbonate as HCO3	293						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	421						
Sulfate	1830						
Calcium	474						
Magnesium	45.1						
Potassium	4.1						
Sodium	562						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	0.6						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-31							
Lab pH	7.1						
Lab Conductivity @25 C	3710						
Total Dissolved Solids @ 180 C	2810						
Total Alkalinity as CaCO3	210						
Total Hardness as CaCO3	1010						
Bicarbonate as HCO3	256						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	90						
Sulfate	1700						
Calcium	354						
Magnesium	31.1						
Potassium	2.3						
Sodium	425						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	1.3						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	1.0						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
PAH							
1-Methylnaphthalene	ND						
2-Methylnaphthalene	ND						
Benzo(a)pyrene	ND						
Naphthalene	ND						
GBR-32							
Lab pH							6.9
Lab Conductivity @25 C							5190
Total Dissolved Solids @ 180 C							4230
Total Alkalinity as CaCO3							250
Total Hardness as CaCO3							1500
Bicarbonate as HCO3							305
Carbonate as CO3							ND
Hydroxide							ND
Chloride							420
Sulfate							2370
Calcium							520
Magnesium							49.3
Potassium							6.8
Sodium							752
HALOCARBONS							
Bromodichloromethane							ND
Bromoform							ND
Bromomethane							ND
Carbon Tetrachloride							ND
Chloroethane							ND
Chloroform							ND
Chloromethane							ND
Dibromochloromethane							ND
1,2-Dibromoethane (EDB)							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
1,1-Dichloroethane							ND

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,2-Dichloroethane (EDC)							ND
1,1-Dichloroethene							ND
cis-1,2-Dichloroethene							3.9
trans-1,2-Dichloroethene							ND
1,2-Dichloropropane							ND
cis-1,3-Dichloropropene							ND
trans-1,3-Dichloropropene							ND
Methylene Chloride							ND
1,1,2,2-Tetrachloroethane							ND
Tetrachlorethene							3.0
1,1,1-Trichloroethane							ND
1,1,2-Trichloroethane							ND
Trichloroethene							1.4
Trichlorofluoromethane							ND
Vinyl Chloride							ND
AROMATICS							
Benzene							ND
Chlorobenzene							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
Ethylbenzene							ND
Methyl-t-Butyl Ether							ND
Toluene							ND
Total Xylenes							ND
GBR-48							
Lab pH							6.9
Lab Conductivity @25 C							6510
Total Dissolved Solids @ 180 C							5150
Total Alkalinity as CaCO3							210
Total Hardness as CaCO3							1900
Bicarbonate as HCO3							256
Carbonate as CO3							ND
Hydroxide							ND
Chloride							925
Sulfate							2480
Calcium							649
Magnesium							67.4
Potassium							7.1
Sodium							898
HALOCARBONS							
Bromodichloromethane							ND
Bromoform							ND
Bromomethane							ND
Carbon Tetrachloride							ND
Chloroethane							ND
Chloroform							1.1
Chloromethane							ND
Dibromochloromethane							ND
1,2-Dibromoethane (EDB)							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
1,1-Dichloroethane							ND
1,2-Dichloroethane (EDC)							ND
1,1-Dichloroethene							ND

	JAN	APR	JUL	AUG	OCT	NOV	DEC
cis-1,2-Dichloroethene							5.5
trans-1,2-Dichloroethene							ND
1,2-Dichloropropane							ND
cis-1,3-Dichloropropene							ND
trans-1,3-Dichloropropene							ND
Methylene Chloride							ND
1,1,2,2-Tetrachloroethane							ND
Tetrachlorethene							3.1
1,1,1-Trichloroethane							ND
1,1,2-Trichloroethane							ND
Trichloroethene							1.6
Trichlorofluoromethane							ND
Vinyl Chloride							ND
AROMATICS							
Benzene							ND
Chlorobenzene							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
Ethylbenzene							ND
Methyl-t-Butyl Ether							ND
Toluene							ND
Total Xylenes							ND
GBR-49							
Lab pH							7
Lab Conductivity @25 C							4160
Total Dissolved Solids @ 180 C							3360
Total Alkalinity as CaCO3							260
Total Hardness as CaCO3							1290
Bicarbonate as HCO3							317
Carbonate as CO3							ND
Hydroxide							ND
Chloride							271
Sulfate							1850
Calcium							449
Magnesium							40.1
Potassium							5.6
Sodium							564
HALOCARBONS							
Bromodichloromethane							ND
Bromoform							ND
Bromomethane							ND
Carbon Tetrachloride							ND
Chloroethane							ND
Chloroform							ND
Chloromethane							ND
Dibromochloromethane							ND
1,2-Dibromoethane (EDB)							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
1,1-Dichloroethane							ND
1,2-Dichloroethane (EDC)							ND
1,1-Dichloroethene							ND
cis-1,2-Dichloroethene							6.0
trans-1,2-Dichloroethene							ND

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,2-Dichloropropane							ND
cis-1,3-Dichloropropene							ND
trans-1,3-Dichloropropene							ND
Methylene Chloride							ND
1,1,2,2-Tetrachloroethane							ND
Tetrachlorethene							4.1
1,1,1-Trichloroethane							ND
1,1,2-Trichloroethane							ND
Trichloroethene							1.5
Trichlorofluoromethane							ND
Vinyl Chloride							ND
AROMATICS							
Benzene							ND
Chlorobenzene							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
Ethylbenzene							ND
Methyl-t-Butyl Ether							ND
Toluene							ND
Total Xylenes							ND
GBR-50							
Lab pH							7.1
Lab Conductivity @25 C							3210
Total Dissolved Solids @ 180 C							2740
Total Alkalinity as CaCO3							190
Total Hardness as CaCO3							1130
Bicarbonate as HCO3							232
Carbonate as CO3							ND
Hydroxide							ND
Chloride							57
Sulfate							1720
Calcium							403
Magnesium							30.1
Potassium							4.5
Sodium							405
HALOCARBONS							
Bromodichloromethane							ND
Bromoform							ND
Bromomethane							ND
Carbon Tetrachloride							ND
Chloroethane							ND
Chloroform							ND
Chloromethane							ND
Dibromochloromethane							ND
1,2-Dibromoethane (EDB)							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
1,1-Dichloroethane							ND
1,2-Dichloroethane (EDC)							ND
1,1-Dichloroethene							ND
cis-1,2-Dichloroethene							ND
trans-1,2-Dichloroethene							ND
1,2-Dichloropropane							ND
cis-1,3-Dichloropropene							ND
trans-1,3-Dichloropropene							ND

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Methylene Chloride							ND
1,1,2,2-Tetrachloroethane							ND
Tetrachlorethene							0.5
1,1,1-Trichloroethane							ND
1,1,2-Trichloroethane							ND
Trichloroethene							ND
Trichlorofluoromethane							ND
Vinyl Chloride							ND
AROMATICS							
Benzene							ND
Chlorobenzene							ND
1,2-Dichlorobenzene							ND
1,3-Dichlorobenzene							ND
1,4-Dichlorobenzene							ND
Ethylbenzene							ND
Methyl-t-Butyl Ether							ND
Toluene							ND
Total Xylenes							ND
GBR-51							
Lab pH	7.1						
Lab Conductivity @25 C	3160						
Total Dissolved Solids @ 180 C	2220						
Total Alkalinity as CaCO3	230						
Total Hardness as CaCO3	910						
Bicarbonate as HCO3	281						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	54						
Sulfate	1280						
Calcium	321						
Magnesium	26.6						
Potassium	0.8						
Sodium	292						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
GBR-52							
Lab pH	7.2						
Lab Conductivity @25 C	3380						
Total Dissolved Solids @ 180 C	2620						
Total Alkalinity as CaCO3	190						
Total Hardness as CaCO3	1130						
Bicarbonate as HCO3	232						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	56						
Sulfate	1560						
Calcium	399						
Magnesium	32.3						
Potassium	1.3						
Sodium	310						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-3							
Lab pH	6.5						
Lab Conductivity @25 C	4570						
Total Dissolved Solids @ 180 C	3940						
Total Alkalinity as CaCO3	202						
Total Hardness as CaCO3	1710						
Bicarbonate as HCO3	246						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	271						
Sulfate	1790						
Calcium	545						
Magnesium	83.9						
Potassium	7.5						
Sodium	423						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-4							
Lab pH	7.0						
Lab Conductivity @25 C	3060						
Total Dissolved Solids (Calc)	2730						
Total Alkalinity as CaCO3	192						
Total Hardness as CaCO3	1250						
Bicarbonate as HCO3	234						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	56						
Sulfate	1670						
Calcium	441						
Magnesium	36						
Potassium	1.7						
Sodium	313						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-6							
Lab pH	7.1						
Lab Conductivity @25 C	2730						
Total Dissolved Solids @ 180 C	2160						
Total Alkalinity as CaCO3	230						
Total Hardness as CaCO3	841						
Bicarbonate as HCO3	281						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	55						
Sulfate	1240						
Calcium	297						
Magnesium	24.5						
Potassium	1.2						
Sodium	286						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-10							
Lab pH	7.1						
Lab Conductivity @25 C	2830						
Total Dissolved Solids (Calc)	2120						
Total Alkalinity as CaCO3	470						
Total Hardness as CaCO3	724						
Bicarbonate as HCO3	573						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	97						
Sulfate	963						
Calcium	220						
Magnesium	42.7						
Potassium	7.6						
Sodium	372						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	1.6						
SHS-12							
Lab pH	7.0						
Lab Conductivity @25 C	2770						
Total Dissolved Solids @ 180 C	1960						
Total Alkalinity as CaCO3	640						
Total Hardness as CaCO3	555						
Bicarbonate as HCO3	781						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	126						
Sulfate	665						
Calcium	195						
Magnesium	16.8						
Potassium	1.3						
Sodium	412						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-13							
Lab pH	6.8						
Lab Conductivity @25 C	3540						
Total Dissolved Solids @ 180 C	2870						
Total Alkalinity as CaCO3	613						
Total Hardness as CaCO3	1380						
Bicarbonate as HCO3	748						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	218						
Sulfate	1230						
Calcium	478						
Magnesium	45.6						
Potassium	2.0						
Sodium	382						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	1.8						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-14 *Not sampled; product detected							
SHS-15							
Lab pH	7.1						
Lab Conductivity @25 C	2550						
Total Dissolved Solids (Calc)	2180						
Total Alkalinity as CaCO3	266						
Total Hardness as CaCO3	1170						
Bicarbonate as HCO3	324						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	52						
Sulfate	1230						
Calcium	404						
Magnesium	39.2						
Potassium	2.5						
Sodium	226						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-16							
Lab pH	7.2						
Lab Conductivity @25 C	2790						
Total Dissolved Solids (Calc)	2470						
Total Alkalinity as CaCO3	275						
Total Hardness as CaCO3	1260						
Bicarbonate as HCO3	335						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	47						
Sulfate	1410						
Calcium	433						
Magnesium	44.5						
Potassium	2.8						
Sodium	239						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						
SHS-17							
Lab pH	7.2						
Lab Conductivity @25 C	3270						
Total Dissolved Solids (Calc)	2550						
Total Alkalinity as CaCO3	275						
Total Hardness as CaCO3	832						
Bicarbonate as HCO3	335						
Carbonate as CO3	ND						
Hydroxide	ND						
Chloride	190						
Sulfate	1050						
Calcium	272						
Magnesium	37.3						
Potassium	2.7						
Sodium	386						
HALOCARBONS							
Bromodichloromethane	ND						
Bromoform	ND						
Bromomethane	ND						
Carbon Tetrachloride	ND						
Chloroethane	ND						
Chloroform	ND						
Chloromethane	ND						
Dibromochloromethane	ND						
1,2-Dibromoethane (EDB)	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
1,1-Dichloroethane	ND						
1,2-Dichloroethane (EDC)	ND						
1,1-Dichloroethene	ND						
cis-1,2-Dichloroethene	ND						
trans-1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis-1,3-Dichloropropene	ND						
trans-1,3-Dichloropropene	ND						
Methylene Chloride	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachlorethene	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride	ND						

	JAN	APR	JUL	AUG	OCT	NOV	DEC
AROMATICS							
Benzene	ND						
Chlorobenzene	ND						
1,2-Dichlorobenzene	ND						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	ND						
Ethylbenzene	ND						
Methyl-t-Butyl Ether	ND						
Toluene	ND						
Total Xylenes	ND						

<i>SHS-18 Not sampled; product detected</i>							

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

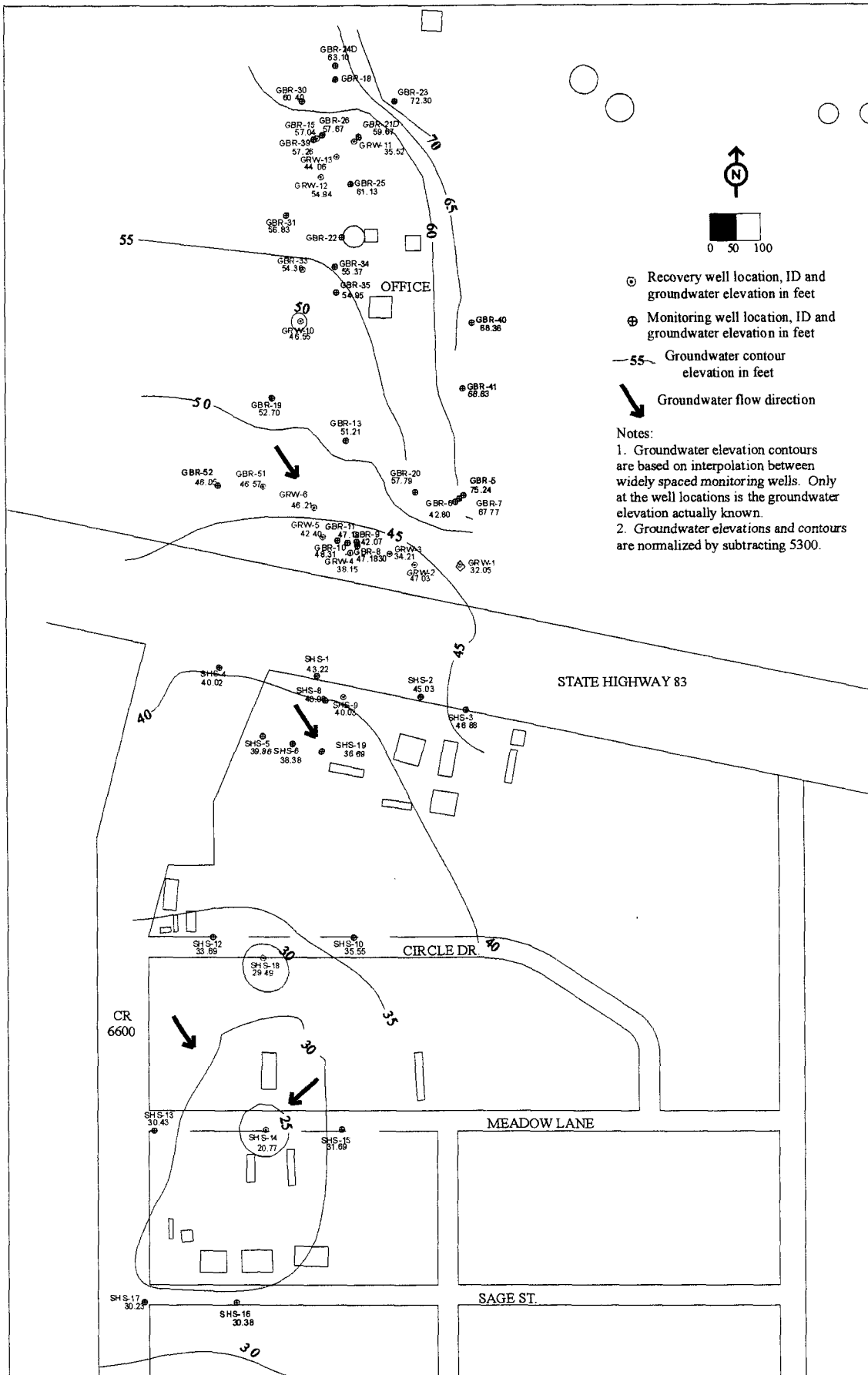
JANUARY, 2002

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	62.25	62.25	0.00	5332.05
GRW-2	5391.28	44.25	44.25	0.00	5347.03
GRW-3	5388.77	54.56	54.56	0.00	5334.21
GRW-4	5390.02	51.87	51.87	0.00	5338.15
GRW-5	5390.56	48.16	48.16	0.00	5342.40
GRW-6	5390.81	44.60	44.60	0.00	5346.21
GRW-10	5395.02	49.10	48.31	0.79	5346.55
GRW-11	5397.85	62.33	62.33	0.00	5335.52
GRW-12	5397.24	42.30	42.30	0.00	5354.94
GRW-13	5396.90	52.84	52.84	0.00	5344.06
GBR-5	5395.07	19.83	19.83	0.00	5375.24
GBR-6	5395.70	52.90	52.90	0.00	5342.80
GBR-7	5395.85	28.18	28.05	0.13	5367.77
GBR-8	5390.50	42.20	42.20	0.00	5348.30
GBR-9	5389.92	47.85	47.85	0.00	5342.07
GBR-10	5390.57	42.26	42.26	0.00	5348.31
GBR-11	5389.43	42.32	42.23	0.09	5347.18
GBR-13	5393.04	41.83	41.83	0.00	5351.21
GBR-15	5397.99	40.95	40.95	0.00	5357.04
GBR-18	5421.68	34.65	34.65	0.00	5387.03
GBR-19	5393.83	41.32	41.08	0.24	5352.70
GBR-20	5393.47	35.70	35.68	0.02	5357.79
GBR-21S	5400.65	27.00	26.86	0.14	5373.76
GBR-21D	5400.19	40.52	40.52	0.00	5359.67
GBR-22	5395.91	Dry	Dry	0.00	5395.91
GBR-23	5403.72	28.72	28.70	0.02	5372.30
GBR-24S	5396.08	31.46	31.44	0.02	5362.43
GBR-24D	5396.77	33.67	33.67	0.00	5363.10
GBR-25	5396.72	37.30	36.35	0.95	5361.13
GBR-26	5395.59	37.92	37.92	0.00	5357.67
GBR-30	5396.58	36.18	36.18	0.00	5360.40
GBR-31	5394.86	38.03	38.03	0.00	5356.83
GBR-33	5396.28	41.98	41.98	0.00	5354.30
GBR-34	5394.00	39.61	38.38	1.23	5355.37
GBR-35	5393.66	40.21	38.33	1.88	5354.95
GBR-39	5397.55	40.29	40.29	0.00	5357.26
GBR-40	5400.76	32.40	32.40	0.00	5368.36
GBR-41	5396.35	27.52	27.52	0.00	5368.83
GBR-51	5389.68	43.11	43.11	0.00	5346.57
GBR-52	5387.74	41.69	41.69	0.00	5346.05

GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE
JANUARY, 2002
Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.38	40.30	0.08	5343.22
SHS-2	5381.66	36.63	36.63	0.00	5345.03
SHS-3	5383.33	36.45	36.45	0.00	5346.88
SHS-4	5383.62	43.60	43.60	0.00	5340.02
SHS-5	5378.36	38.50	38.50	0.00	5339.86
SHS-6	5378.17	39.79	39.79	0.00	5338.38
SHS-8	5380.25	40.97	40.00	0.97	5340.06
SHS-9	5380.79	40.76	40.76	0.00	5340.03
SHS-10	5373.80	38.25	38.25	0.00	5335.55
SHS-12	5373.94	40.25	40.25	0.00	5333.69
SHS-13	5367.81	37.38	37.38	0.00	5330.43
SHS-14	5367.07	46.30	46.30	0.00	5320.77
SHS-15	5366.21	34.52	34.52	0.00	5331.69
SHS-16	5362.58	32.20	32.20	0.00	5330.38
SHS-17	5364.35	34.12	34.12	0.00	5330.23
SHS-18	5373.64	44.15	44.15	0.00	5329.49
SHS-19	5378.89	42.20	42.20	0.00	5336.69

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



AESE A.E. SCHMIDT ENVIRONMENTAL, INC. ENGINEERS AND CONTRACTORS 905 San Juan Blvd., Ste D, Farmington, NM 87401 505-326-9116	GROUNDWATER ELEVATION CONTOUR MAPS JANUARY 2002	DWN BY: DB CHKD BY: MJN APPVD BY: MJN On: 01/10/03	Figure 1
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**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

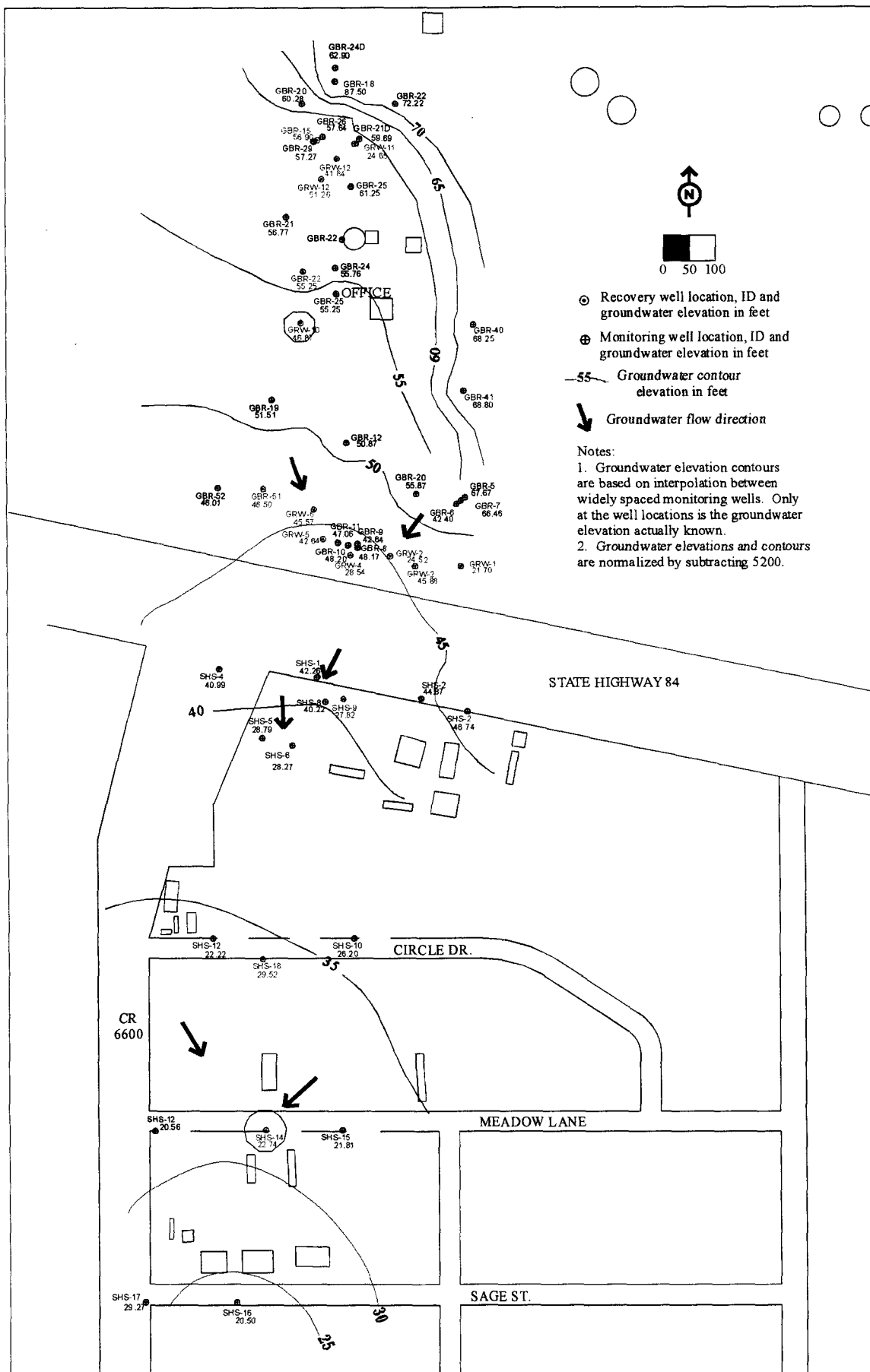
APRIL, 2002

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	62.60	62.60	0.00	5331.70
GRW-2	5391.28	45.40	45.40	0.00	5345.88
GRW-3	5388.77	54.24	54.24	0.00	5334.53
GRW-4	5390.02	51.48	51.48	0.00	5338.54
GRW-5	5390.56	47.92	47.92	0.00	5342.64
GRW-6	5390.81	45.24	45.24	0.00	5345.57
GRW-10	5395.02	48.75	48.00	0.75	5346.87
GRW-11	5397.85	63.20	63.20	0.00	5334.65
GRW-12	5397.24	45.88	45.88	0.00	5351.36
GRW-13	5396.90	55.06	55.06	0.00	5341.84
GBR-5	5395.07	27.40	27.40	0.00	5367.67
GBR-6	5395.70	53.30	53.30	0.00	5342.40
GBR-7	5395.85	29.44	29.38	0.06	5366.46
GBR-8	5390.50	42.33	42.33	0.00	5348.17
GBR-9	5389.92	47.28	47.28	0.00	5342.64
GBR-10	5390.57	42.27	42.27	0.00	5348.30
GBR-11	5389.43	42.43	42.35	0.08	5347.06
GBR-13	5393.04	42.17	42.17	0.00	5350.87
GBR-15	5397.99	41.09	41.09	0.00	5356.90
GBR-18	5421.68	34.18	34.18	0.00	5387.50
GBR-19	5393.83	43.19	42.10	1.09	5351.51
GBR-20	5393.47	37.62	37.60	0.02	5355.87
GBR-21S	5400.65	27.89	27.85	0.04	5372.79
GBR-21D	5400.19	40.50	40.50	0.00	5359.69
GBR-22	5395.91	0.00	0.00	0.00	5395.91
GBR-23	5403.72	29.04	29.02	0.02	5372.23
GBR-24S	5396.08	31.54	31.51	0.03	5362.23
GBR-24D	5396.77	33.87	33.87	0.00	5362.90
GBR-25	5396.72	37.75	36.43	1.32	5361.35
GBR-26	5395.59	37.95	37.95	0.00	5357.64
GBR-30	5396.58	36.20	36.20	0.00	5360.38
GBR-31	5394.86	38.09	38.09	0.00	5356.77
GBR-33	5396.28	41.03	41.03	0.00	5355.25
GBR-34	5394.00	38.26	38.23	0.03	5355.76
GBR-35	5393.66	38.44	38.40	0.04	5355.25
GBR-39	5397.55	40.28	40.28	0.00	5357.27
GBR-40	5400.76	32.41	32.41	0.00	5368.35
GBR-41	5396.35	27.55	27.55	0.00	5368.80
GBR-51	5389.68	43.18	43.18	0.00	5346.50
GBR-52	5387.74	41.73	41.73	0.00	5346.01

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 APRIL, 2002
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.28	40.28	0.00	5343.26
SHS-2	5381.66	36.79	36.79	0.00	5344.87
SHS-3	5383.33	36.59	36.59	0.00	5346.74
SHS-4	5383.62	42.63	42.63	0.00	5340.99
SHS-5	5378.36	39.57	39.57	0.00	5338.79
SHS-6	5378.17	39.80	39.80	0.00	5338.37
SHS-8	5380.25	40.03	40.03	0.00	5340.22
SHS-9	5380.79	42.96	42.96	0.00	5337.83
SHS-10	5373.80	37.60	37.60	0.00	5336.20
SHS-12	5373.94	40.71	40.71	0.00	5333.23
SHS-13	5367.81	37.25	37.25	0.00	5330.56
SHS-14	5367.07	44.33	44.33	0.00	5322.74
SHS-15	5366.21	34.40	34.40	0.00	5331.81
SHS-16	5362.58	32.08	32.08	0.00	5330.50
SHS-17	5364.35	34.98	34.98	0.00	5329.37
SHS-18	5373.64	44.12	44.12	0.00	5329.52
SHS-19	5378.89	41.60	41.60	0.00	5337.29

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



A.E. SCHMIDT ENVIRONMENTAL, INC. ENGINEERS AND CONTRACTORS 906 San Juan Blvd Ste D Farmington, NM 87401 505-566-9116	GROUNDWATER ELEVATION CONTOUR MAPS APRIL 2002	DWN BY: DB CHKD BY: MJN APPVD BY: MJN DATE: 10/12/02	Figure 2
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**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

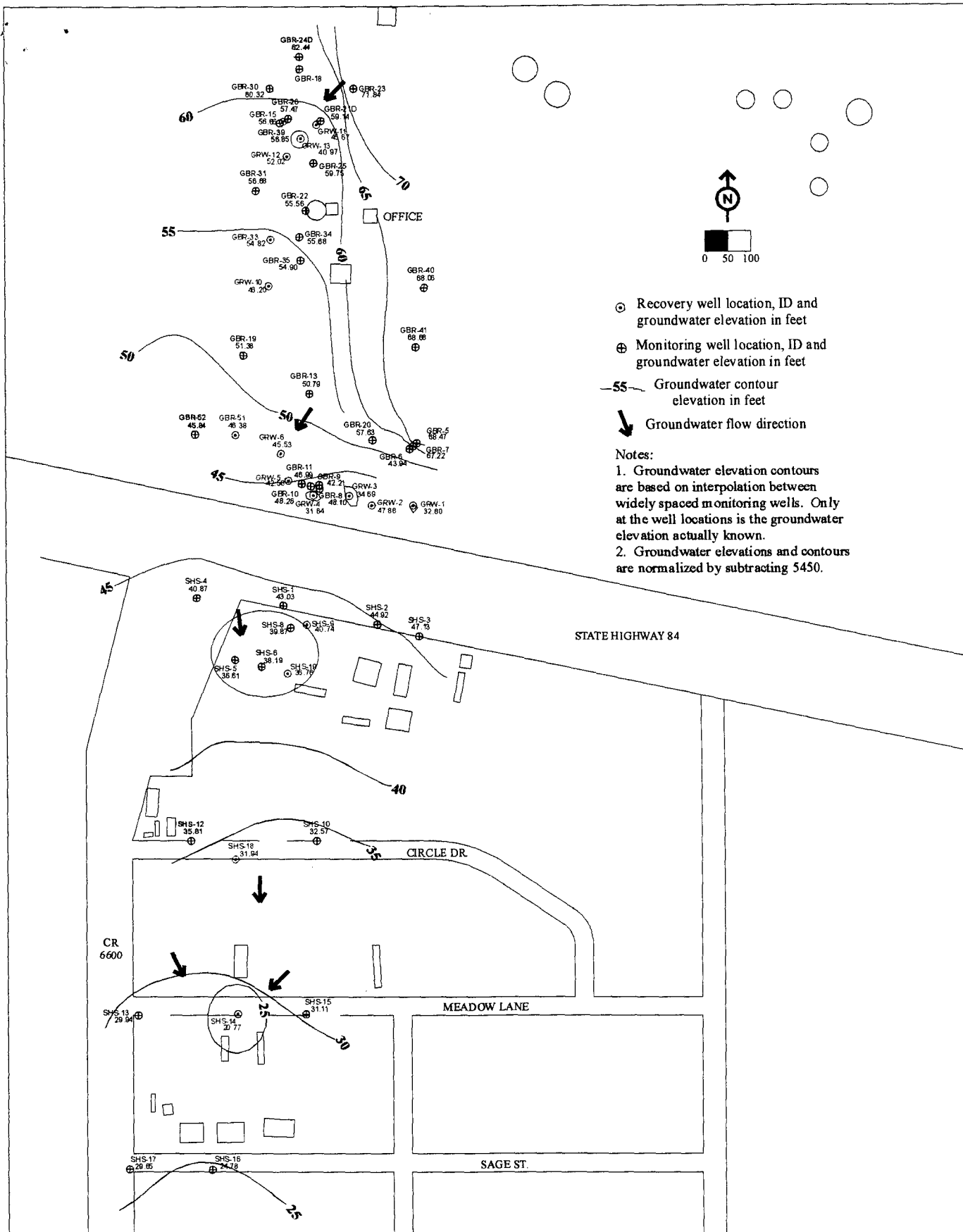
JULY, 2002

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	61.50	61.50	0.00	5332.80
GRW-2	5391.28	43.40	43.40	0.00	5347.88
GRW-3	5388.77	54.08	54.08	0.00	5334.69
GRW-4	5390.02	58.38	58.38	0.00	5331.64
GRW-5	5390.56	47.98	47.98	0.00	5342.58
GRW-6	5390.81	45.28	45.28	0.00	5345.53
GRW-10	5395.02	48.82	48.82	0.00	5346.20
GRW-11	5397.85	52.18	52.18	0.00	5345.67
GRW-12	5397.24	45.22	45.22	0.00	5352.02
GRW-13	5396.90	55.93	55.93	0.00	5340.97
GBR-5	5395.07	26.60	26.60	0.00	5368.47
GBR-6	5395.70	51.76	51.76	0.00	5343.94
GBR-7	5395.85	28.68	28.62	0.06	5367.22
GBR-8	5390.50	42.40	42.40	0.00	5348.10
GBR-9	5389.92	47.71	47.71	0.00	5342.21
GBR-10	5390.57	42.31	42.31	0.00	5348.26
GBR-11	5389.43	42.54	42.42	0.12	5346.99
GBR-13	5393.04	42.25	42.25	0.00	5350.79
GBR-15	5397.99	41.33	41.33	0.00	5356.66
GBR-18	5421.68	34.78	34.78	0.00	5386.90
GBR-19	5393.83	43.30	42.24	1.06	5351.38
GBR-20	5393.47	35.84	35.84	0.00	5357.63
GBR-21S	5400.65	28.92	28.92	0.00	5371.73
GBR-21D	5400.19	41.05	41.05	0.00	5359.14
GBR-22	5395.91	40.35	40.35	0.00	5355.56
GBR-23	5403.72	29.11	29.08	0.03	5371.84
GBR-24S	5396.08	31.90	31.90	0.00	5361.75
GBR-24D	5396.77	34.33	34.33	0.00	5362.44
GBR-25	5396.72	36.97	36.97	0.00	5359.75
GBR-26	5395.59	38.12	38.12	0.00	5357.47
GBR-30	5396.58	36.26	36.26	0.00	5360.32
GBR-31	5394.86	38.18	38.18	0.00	5356.68
GBR-33	5396.28	41.46	41.46	0.00	5354.82
GBR-34	5394.00	38.65	38.24	0.41	5355.68
GBR-35	5393.66	39.80	38.50	1.30	5354.90
GBR-39	5397.55	40.70	40.70	0.00	5356.85
GBR-40	5400.76	32.70	32.70	0.00	5368.06
GBR-41	5396.35	27.67	27.67	0.00	5368.68
GBR-51	5389.68	43.30	43.30	0.00	5346.38
GBR-52	5387.74	41.90	41.90	0.00	5345.84

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 JULY, 2002
 Page 2

WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.55	40.50	0.05	5343.03
SHS-2	5381.66	36.74	36.74	0.00	5344.92
SHS-3	5383.33	36.20	36.20	0.00	5347.13
SHS-4	5383.62	42.75	42.75	0.00	5340.87
SHS-5	5378.36	41.75	41.75	0.00	5336.61
SHS-6	5378.17	39.98	39.98	0.00	5338.19
SHS-8	5380.25	41.20	40.18	1.02	5339.87
SHS-9	5380.79	40.05	40.05	0.00	5340.74
SHS-10	5373.80	41.23	41.23	0.00	5332.57
SHS-12	5373.94	38.13	38.13	0.00	5335.81
SHS-13	5367.81	37.87	37.87	0.00	5329.94
SHS-14	5367.07	46.30	46.30	0.00	5320.77
SHS-15	5366.21	35.10	35.10	0.00	5331.11
SHS-16	5362.58	37.80	37.80	0.00	5324.78
SHS-17	5364.35	34.70	34.70	0.00	5329.65
SHS-18	5373.64	41.70	41.70	0.00	5331.94
SHS-19	5378.89	42.13	42.13	0.00	5336.76

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



AESE

A.E. SCHMIDT ENVIRONMENTAL, INC.
ENGINEERS AND CONTRACTORS

906 San Juan Blvd Ste D Farmington, NM 87451

505-566-9116

GROUNDWATER ELEVATION
CONTOUR MAPS
JULY 2002

DWN BY: DB
CHKD BY: MJN
APPVD BY: MJN
DATE: 01/14/04

Figure
3

**GIANT REFINING BLOOMFIELD REFINERY
QUARTERLY POTENTIOMETRIC SURFACE**

OCTOBER, 2002

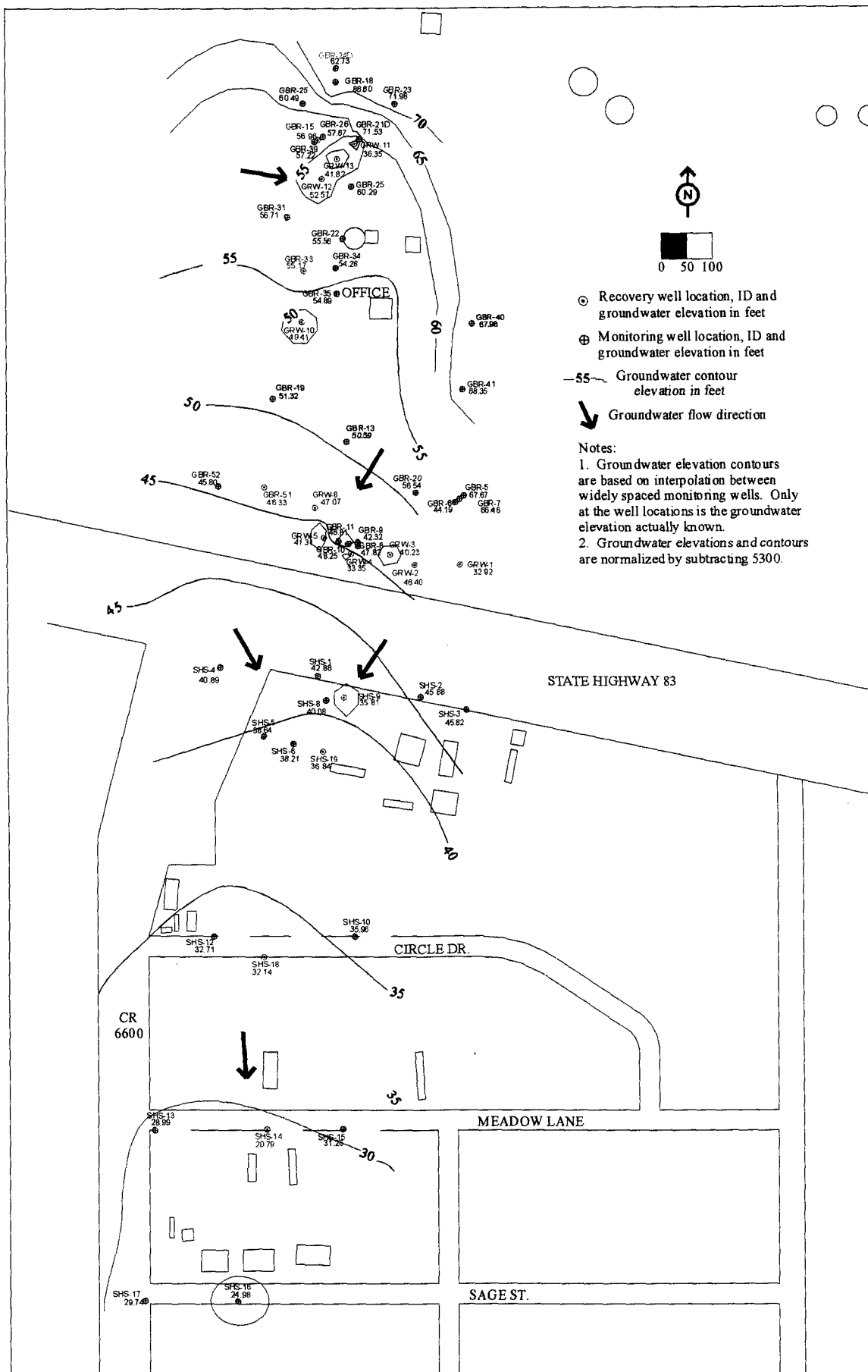
WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
GRW-1	5394.30	61.38	61.38	0.00	5332.92
GRW-2	5391.28	44.88	44.88	0.00	5346.40
GRW-3	5388.77	48.54	48.54	0.00	5340.23
GRW-4	5390.02	56.67	56.67	0.00	5333.35
GRW-5	5390.56	49.25	49.25	0.00	5341.31
GRW-6	5390.81	43.74	43.74	0.00	5347.07
GRW-10	5395.02	46.45	45.40	1.05	5349.41
GRW-11	5397.85	61.50	61.50	0.00	5336.35
GRW-12	5397.24	44.67	44.67	0.00	5352.57
GRW-13	5396.90	55.08	55.08	0.00	5341.82
GBR-5	5395.07	27.40	27.40	0.00	5367.67
GBR-6	5395.70	51.51	51.51	0.00	5344.19
GBR-7	5395.85	29.49	29.36	0.13	5366.46
GBR-8	5390.50	42.68	42.68	0.00	5347.82
GBR-9	5389.92	47.60	47.60	0.00	5342.32
GBR-10	5390.57	42.32	42.32	0.00	5348.25
GBR-11	5389.43	42.72	42.60	0.12	5346.81
GBR-13	5393.04	42.47	42.45	0.02	5350.59
GBR-15	5397.99	41.03	41.03	0.00	5356.96
GBR-18	5421.68	35.08	35.08	0.00	5386.60
GBR-19	5393.83	43.34	42.30	1.04	5351.32
GBR-20	5393.47	36.98	36.92	0.06	5356.54
GBR-21S	5400.65	41.10	41.10	0.00	5359.55
GBR-21D	5400.19	28.66	28.66	0.00	5371.53
GBR-22	5395.91	40.35	40.35	0.00	5355.56
GBR-23	5403.72	28.90	28.88	0.02	5371.98
GBR-24S	5396.08	31.78	31.76	0.02	5362.06
GBR-24D	5396.77	34.04	34.04	0.00	5362.73
GBR-25	5396.72	38.50	37.35	1.15	5360.29
GBR-26	5395.59	37.92	37.92	0.00	5357.67
GBR-30	5396.58	36.09	36.09	0.00	5360.49
GBR-31	5394.86	38.15	38.15	0.00	5356.71
GBR-33	5396.28	41.11	41.11	0.00	5355.17
GBR-34	5394.00	39.83	39.69	0.14	5354.28
GBR-35	5393.66	39.75	38.52	1.23	5354.89
GBR-39	5397.55	40.33	40.33	0.00	5357.22
GBR-40	5400.76	32.78	32.78	0.00	5367.98
GBR-41	5396.35	28.00	28.00	0.00	5368.35
GBR-51	5389.68	43.35	43.35	0.00	5346.33
GBR-52	5387.74	41.94	41.94	0.00	5345.80

GIANT REFINING BLOOMFIELD REFINERY
 QUARTERLY POTENTIOMETRIC SURFACE
 OCTOBER, 2002

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WELL #	WELLHEAD ELEVATION IN FEET	DEPTH TO WATER IN FEET	DEPTH TO PRODUCT IN FEET	PRODUCT THICKNESS IN FEET	ADJUSTED WSEL* IN FEET
SHS-1	5383.54	40.66	40.66	0.00	5342.88
SHS-2	5381.66	35.98	35.98	0.00	5345.68
SHS-3	5383.33	37.51	37.51	0.00	5345.82
SHS-4	5383.62	42.73	42.73	0.00	5340.89
SHS-5	5378.36	39.72	39.72	0.00	5338.64
SHS-6	5378.17	39.96	39.96	0.00	5338.21
SHS-8	5380.25	40.17	40.17	0.00	5340.08
SHS-9	5380.79	44.98	44.98	0.00	5335.81
SHS-10	5373.80	37.84	37.84	0.00	5335.96
SHS-12	5373.94	41.23	41.23	0.00	5332.71
SHS-13	5367.81	38.82	38.82	0.00	5328.99
SHS-14	5367.07	46.28	46.28	0.00	5320.79
SHS-15	5366.21	34.95	34.95	0.00	5331.26
SHS-16	5362.58	37.60	37.60	0.00	5324.98
SHS-17	5364.35	34.61	34.61	0.00	5329.74
SHS-18	5373.64	41.50	41.50	0.00	5332.14
SHS-19	5378.89	42.05	42.05	0.00	5336.84

* WSEL - WATER SURFACE ELEVATION ADJUSTED FOR PRODUCT DEPTH



**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
VOLUME CHANGE**

2002

Tank Number	Beginning Volume	Ending Volume	Net Change
102	15,025	13,792	(1,233)
106	8,010	8,010	0
21	230,133	230,133	0
22	249,979	217,773	(32,206)
Total Net Volume Change			(33,439)

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
RECOVERY WELL
VOLUME TABULATION**

2002

Well	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
GRW-1	33,480	29,350	29,870	28,520	121,220
GRW-2	23,180	21,080	16,800	14,970	76,030
GRW-3	52,990	41,430	34,470	25,690	154,580
GRW-4	37,320	24,190	30,500	26,820	118,830
GRW-5	68,740	52,960	57,750	45,740	225,190
GRW-6	49,910	67,890	29,530	8,130	155,460
GRW-9	57,760	42,080	32,080	27,490	159,410
GRW-10	561,370	464,220	469,630	377,240	1,872,460
GRW-11	34,090	19,870	47,940	89,710	191,610
GRW-12	8,960	4,860	8,730	8,840	31,390
GRW-13	10,870	6,990	11,110	7,560	36,530
SHS-9	7,487	5,399	6,205	6,815	25,906
SHS-14	257,953	230,673	278,964	259,469	1,027,059
SHS-18	62,152	83,630	31,857	59,148	236,787
SHS-19	98,652	82,452	93,699	73,158	347,961
TOTAL VOLUME PUMPED IN GALLONS					4,780,423

**GIANT REFINING COMPANY
BLOOMFIELD REFINERY
TOTAL VOLUME SUMMARY**

2002

Total Volume Of Water Recovered	4,780,423
Net Change In Storage Volume	<u>(33,439)</u>
Total Water Treated And Pumped To The Infiltration Gallery	<u><u>4,813,862</u></u>