490

Annual GW Mon. REPORTS

DATE: 2005

R.T. HICKS CONSULTANTS, LTD.

1909 Brunson Avenue 🔳 Midland, Texas 79701-6924 📕 432.638.8740 📕 Fax: 413.403.9968

CERTIFIED MAIL RETURN RECIEPT NO. 7099 3400 0017 1737 1797

January 5, 2006

Mr. Wayne Price New Mexico Energy, Minerals, & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: 2005 Annual Monitoring Report EME P-6 Release Site (NMOCD Case # 1R0422, AP-45) EME N-5 Junction Box Site (NMOCD Case # 1R0427-90) EME E-5 Junction Box Site (NMOCD Case # 1R0427-91) EME M-5 SWD Site (NMOCD Case # - None assigned) T20S-R37E-Sections 5 and 6

Mr. Price:

R. T. Hicks Consultants, Ltd. takes this opportunity to submit the 2005 Annual Monitoring Well Report for the EME sites listed above. The above-referenced sites are located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. These sites have been included in a single monitoring report because of their close proximity to one another and for correlation of water table data to generate a groundwater gradient map. Additional sites in the area may be included in subsequent reports after elevation data has been surveyed by a registered New Mexico surveyor.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me at (423) 638-8740 or Kristin Farris Pope at (505) 393-9174.

Sincerely,

Libert J. Van Dev

Gilbert J. Van Deventer, REM, PG, NMCS R. T. Hicks Consultants Ltd.

enclosures: Summary table & graphs, maps, well sample data sheets, and laboratory reports

cc: LBG, CDH, KFP, file

MAPS









TABLE AND GRAPHS

Table 1
Summary of Groundwater Monitoring Results
EME P-6, M-5, N-5, and E-5 Sites

Monage Weil Surface may Large Data Surface may Large Data Surface Task Surface Task Depart of may Large Data Depart Data Depart Data Depart of may Large Data Depart Data <thdepart data<="" th=""> Depart Data Depar</thdepart>	[<u>C</u>
Wet Sample Data (mg/L) (mg/L) (mg/L) <t< td=""><td>Monitoring</td><td>C 1 D</td><td>Chloride</td><td>Sulfate</td><td>TDS</td><td>Benzene</td><td>Toluene</td><td>Ethylbenzene</td><td>Xylene</td><td>Depth to</td><td>Groundwater</td></t<>	Monitoring	C 1 D	Chloride	Sulfate	TDS	Benzene	Toluene	Ethylbenzene	Xylene	Depth to	Groundwater
Prod Prod <th< td=""><td>Well</td><td>Sample Date</td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td><td>(mg/L)</td><td>Groundwater</td><td>Elevation (leet</td></th<>	Well	Sample Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Groundwater	Elevation (leet
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1							,	,	(reet BIOC)	AMSL)
b)/+1/02 6000 862 18200 <0.001	<u> </u>	01/10/02	10700	999	20248	< 0.002	< 0.002	< 0.002	< 0.006	36.70	3522.32
08/15/02 9570 646 19600 < 0.001		05/14/02	8060	852	18200	< 0.001	< 0.001	< 0.001	< 0.001	36.73	3522.29
11/06/02 9040 921 17400 <0.001	1	08/15/02	9570	646	16900	< 0.001	< 0.001	< 0.001	< 0.001	36.95	3522.07
(2)27/03 680 741 1500 < 0.001		11/06/02	9040	952	17400	< 0.001	< 0.001	< 0.001	< 0.001	37.15	3521.87
05/29/03 8680 683 2000 < 0.001	1	02/27/03	8860	741	15000	< 0.001	< 0.001	< 0.001	< 0.001	37.12	3521.90
08/21/03 8860 663 17800 < 0.001 < 0.001 < 0.001 37.64 352:38 02/20/04 8510 8500 6.001 < 0.001	4	05/29/03	8680	858	20000	< 0.001	< 0.001	< 0.001	< 0.001	37.19	3521.83
Ph-1 11/19/03 8690 619 1550 < 0.001 < 0.001 < 0.001 37.84 352.18 05/06/04 850 7560 < 0.001		08/21/03	8860	683	17800	< 0.001	< 0.001	< 0.001	< 0.001	37.43	3521.59
01/2/20/04 8510 8500 16600 < 0.001 < 0.001 < 0.001 < 0.001 37.36 3521.66 08/10/04 9940 899 17200 < 0.001	P6-1	11/19/03	8690	619	18500	< 0.001	< 0.001	< 0.001	< 0.001	37.64	3521.38
05/06/04 8510 756 17400 < 0.001	10-1	02/20/04	8510	830	16600	< 0.001	< 0.001	< 0.001	< 0.001	37.84	3521.18
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		05/06/04	8510	756	17400	< 0.001	< 0.001	< 0.001	< 0.001	37.36	3521.66
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		08/10/04	9040	889	17200	< 0.001	< 0.001	< 0.001	< 0.001	37.03	3521.99
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		11/09/04	9130	1220	17600	< 0.001	< 0.001	< 0.001	< 0.001	36.28	3522.74
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		02/07/05	8210	1870	17800	< 0.001	< 0.001	< 0.001	< 0.001	33.54	3525.48
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		05/03/05	7090	1050	19300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.26
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	}	08/11/05	9210	1140	16600	< 0.001	< 0.001	< 0.001	< 0.001	32.81	3526.21
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		11/28/05	7580	1040	14700	< 0.001	< 0.001	< 0.001	< 0.001	32.55	3520.47
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		02/20/04	9040	1260	19/00	< 0.001	< 0.001	< 0.001	< 0.001	37.20	3522.00
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		09/00/04	8240	1240	15/00	< 0.001	< 0.001	< 0.001	< 0.001	36.97	3522.50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		11/00/04	7670	1220	15700	< 0.001	< 0.001	< 0.001	< 0.001	35.91	3523.82
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	P6-2	02/07/04	7030	1860	15300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.89
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		02/07/03	6050	885	14100	< 0.001	< 0.001	< 0.001	< 0.001	32.70	3527.36
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		08/11/05	7540	1100	14300	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.03
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		11/28/05	7660	1030	9170	< 0.001	< 0.001	< 0.001	< 0.001	32.48	3527.17
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		12/11/03	6198	99.8	10784	< 0.002	< 0.002	< 0.002	< 0.006	33.28	3521.13
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		$\frac{02}{20}$	5320	454	14500	< 0.002	< 0.002	< 0.002	< 0.006	33.37	3521.04
M5-1 08/10/04 6001 4700 17300 < 0.001 < 0.001 < 0.001 31.63 3522.78 05/13 05/03/05 6560 595 16500 < 0.001		05/06/04	5940	420	12400	< 0.002	< 0.002	< 0.002	< 0.006	32.79	3521.62
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		08/10/04	6910	470	17300	< 0.001	< 0.001	< 0.001	< 0.001	32.52	3521.89
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	M5-1	11/09/04	7090	614	14000	< 0.001	< 0.001	< 0.001	< 0.001	31.63	3522.78
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		02/07/05	6710	1450	13200	< 0.001	< 0.001	< 0.001	< 0.001	28.85	3525.56
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	· · · ·	05/03/05	6560	595	16500	< 0.001	< 0.001	< 0.001	< 0.001	28.10	3526.31
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		08/13/05	6070	574	13800	< 0.001	< 0.001	< 0.001	< 0.001	28.24	3526.17
01/10/02 1,60 149 2,652 <0.002 <0.006 <0.006 <0.006 35.50 3523.85 05/13/02 939 142 2,520 <0.001		11/28/05	4500	1470	12300	< 0.001	< 0.001	< 0.001	< 0.001	27.87	3526.54
05/13/02 993 142 2,520 <0.001		01/10/02	1,160	149	2,652	< 0.002	< 0.002	<0.006	<0.006	35.50	3523.85
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		05/13/02	993	142	2,520	< 0.001	0.002	0.003	0.009	37.47	3521.88
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		08/12/02	939	109	2,700	< 0.001	< 0.001	< 0.001	0.001	37.75	3521.60
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		11/04/02	1,200	44.9	3,083	< 0.002	< 0.002	< 0.002	< 0.006	37.90	3521.45
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		03/14/03	1,050	103	2,310	< 0.001	0.002	0.004	0.011	37.78	3521.57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		05/29/03	1,130	90.4	3,230	< 0.001	0.001	0.004	0.01	38.00	3521.35
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		08/22/03	1,200	100	2,930		0.000		0.012	38.42	3520.93
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	N/F 1	11/20/03	1,150	102	3,200	<0.001	0.002	0.003	0.012	38.03	3520.72
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1-671	02/20/04	1,180	5/ 70	2,375	<0.002	<0.002 0.005	<u>\0.002</u> 0.005	N0.000	37.20	3520.85
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		05/26/04	1,000	עז קר	2,383	<0.002	0.005	0.005	0.010	37.00	3521.33
$\begin{array}{c c c c c c c c c c c c c c c c c c c $. *	12/01/04	1,150	721	3,1/0	<0.001	<0.001	<0.002	<0.005	37.24	3524.23
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		01/26/05	1,200	220	4 280	<0.001	<0.001	0.001	0.001	34.03	3525 32
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		02/08/05	1 640	230	4,280	<0.001	<0.001	0.002	0.001	33.79	3525.56
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		05/02/05	2.140	172	5.680	< 0.001	< 0.001	0.003	0.002	34.50	3524.85
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		08/11/05	1.860	144	4.480	< 0.001	< 0.001	< 0.001	< 0.001	33.39	3525.96
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	· ĺ	11/28/05	1,430	222	3,180	0.001	0.002	0.004	0.003	32.90	3526.45
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		05/14/02	886	157	2,300	< 0.001	< 0.001	< 0.001	< 0.001	40.72	3522.50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		08/12/02	993	141	2,440	< 0.001	0.001	< 0.001	< 0.003	40.91	3522.31
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		11/05/02	833	116	2,180	<0.001	< 0.001	<0.001	< 0.001	41.15	3522.07
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		03/14/03	877	127	2,170	< 0.001	< 0.001	<0.001	< 0.001	41.03	3522.19
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		05/29/03	913	119	2,270	< 0.001	< 0.001	<0.001	< 0.001	41.14	3522.08
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		08/22/03	833	116	2,210	< 0.001	< 0.001	<0.001	<0.001	41.14	3522.08
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		11/20/03	833	100	2,200	< 0.001	< 0.001	< 0.001	< 0.001	41.73	3521.49
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1E5-1	02/20/04	820	64	2,200	<0.002	< 0.002	< 0.002	<0.006	· 41.70	3521.52
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		05/26/04	520	47	1,657	< 0.002	< 0.002	< 0.002	< 0.006	40.90	3522.32
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		09/02/04	514	74.6	1,640	< 0.001	0.001	< 0.001	0.002	40.70	3522.52
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		01/26/05	1,730	148	3,930	0.001	0.005	0.002	0.009	35.28	3527.94
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	· ·	02/08/05	916	89.2	2,280	< 0.001	< 0.001	< 0.001	<0.001	35.23	3527.99
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		05/02/05	635	61.4	1,540	< 0.001	< 0.001	< 0.001	< 0.001	35.44	3527.78
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		08/11/05	600	55.3	1,430	< 0.001	< 0.001	< 0.001	< 0.001	36.11	3527.11
		11/28/05	582	66.5	1,300	< 0.001	0.002	<0.001	0.003	35.87	3527.35

 WQCC Standards
 250
 600
 1000
 0.01
 0.75
 0.75

 Total Dissolved Solids (TDS), chloride, sulfate, and BTEX concentrations listed in milligrams per liter (mg/L)
 0.75
 0.75
 0.75

 Analyses performed by Environmental Lab of Texas, Odessa, TX.
 Values in holdface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
 AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
 Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

903.8 c (18007 2009 MW Suite F-142 Albiotecome New Mexico 87104



Figure 2 TDS, Chloride, Sulfate, and Groundwater Elevation Values Versus Time Graph (P6-1) P-6 Release Site (T20S, R37E, Section 6, Unit Letter P)

Figure 3 TDS, Chloride, Sulfate, and Groundwater Elevation Values Versus Time Graph (P6-2) P-6 Release Site (T20S, R37E, Section 6, Unit Letter P)



1117 - 1117 - 1117 101 Part School Block NW State 6-142 Alternational Control Mexico 87104



Figure 4 TDS, Chloride, Sulfate, and Groundwater Elevation Values Versus Time Graph (M5-1) M-5 SWD Site (T20S, R37E, Section 5, Unit Letter M)

Figure 5 TDS, Chloride, Sulfate, and Groundwater Elevation Values Versus Time Graph (N5-1) N-5 Junction Box Site (T20S, R37E, Section 5, Unit Letter N)



¥с. –

(a) For Cranze Bird and, Suno Felie. Altrage rope: New Marico 87100

2



Figure 6 TDS, Chloride, Sulfate, and Groundwater Elevation Values Versus Time Graph (E5-1) E-5 Innction Box Site (T208, B37F, Section 5, Unit Letter F)

Sampling Date

WELL SAMPLE DATA SHEETS



CLIENT: RICE Operating Company						WELL ID:	P6-1
	SYSTEM:	E	ME Syste	m		DATE:	February 7, 2005
SITE L	OCATION:	P	-6 Releas	e		SAMPLER:	G. Van Deventer
PURGING	G METHOD		🗹 Hand Ba	iled 🗌 Pu	mp If Pu	imp, Type:	
SAMPLIN	IG METHOI	D:	🗹 Disposat	ble Bailer	Direct	from Disch	arge Hose 🗌 Other:
DESCRIE	BE EQUIPM	IENT DECC	NTAMINAT	ION METH	IOD BEF	ORE SAM	PLING THE WELL
Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	Rinse 🗌 C	Other:	·	
DISPOSA		O OF PURG	E WATER:	Surface	e Dischar	ge 🗌 Dru	ims Disposal Facility
TOTAL D	EPTH OF V	VELL:	47.95	Feet	•		
DEPTH T	O WATER:		33.54	Feet		7	
WELL DI	AMETER:	2.0	Inch	- reel		8	Actual Gallons purged
	VOLUME			T			T
TIME	PURGED (GAL)	TEMP. °C	COND. mS/cm	рН			PHYSICAL APPEARANCE AND REMARKS
16:24	0			·			Began purging.
16:28	2	18.2	19.93	6.58			
16:32	4	18.2	19.96	6.59			
16:36	6	18.0	20.00	6.62			
16:40	8	18.2	> 20	6.61			
			·			16:45	Samples collected
				·			
					· · · · · · · · · · · · · · · · · · ·	[
	··	·					
• .'			·····	L		· · ·	
0:16	:Total Time	e (hr:min)	8	:Total Vol	(gal)	0.50	Average Flow Rate (gal/min)

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	erating Co	mpany	_	WELL ID:	P6-2					
	SYSTEM:	E	ME Syste	m	_	DATE:	February 7, 2005					
SITE L	OCATION:	P	-6 Releas	e	_	SAMPLER:	G. Van Deventer					
PURGING	G METHOD	:	Hand Ba	iled 🗹 Pu	imp If Pu	imp, Type:	3-stage Mini-Monsoon Submersible Pump					
SAMPLIN	IG METHO	D:	🗹 Disposat	ole Bailer [✓ Direct	from Disch	arge Hose 🔲 Other:					
DESCRIE	DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:											
Gloves Alconox Distilled Water Rinse Other:												
DISPOSAL METHOD OF PURGE WATER: Discharge Discharge Drums Disposal Facility												
TOTAL DEPTH OF WELL: 72.45 Feet DEPTH TO WATER: 32.76 Feet HEIGHT OF WATER COLUMN: 39.69 Feet 19 Minimum gallons to purge 3 well volumes WELL DIAMETER: 2.0 Inch 28 Actual Gallons purged												
TIME	VOLUME PURGED (GAL)	TEMP. °C	COND. mS/cm	pН			PHYSICAL APPEARANCE AND REMARKS					
16:20	0						Began purging.					
16:22	4	19.4	17.81	6.59								
16:24	8	18.7	17.97	6.58								
16:27	12	18.7	18	6.58								
16:30	16	18.6	18.02	6.59								
16:32	20	18.5	18.03	6.59								
16:34	24	18.6	18.05	6.61								
16:36	28	18.4	18.01	6.62			Purging completed.					
			<u></u>			16:36	Samples collected					
				· · · ·								
				·								
	· · · · · ·						· · · · · · · · · · · · · · · · · · ·					
<u>`</u>						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
			-		 							
0:16	:Total Time	e (hr:min)	28	:Total Vol	(gal)	1.75	:Average Flow Rate (gal/min)					

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	perating Co	mpany	_	WELL ID:	M5-1
	SYSTEM:	E	ME Syster	m .	_	DATE:	February 8, 2005
SITE L	OCATION:	M	-5 SWD S	ite	;	SAMPLER:	G. Van Deventer
PURGIN	G METHOD	:	🗹 Hand Ba	iled 🗌 Pu	imp If Pu	imp, Type:	
SAMPLIN	IG METHO	D:	🗹 Disposat	ble Bailer	✓ Direct	from Disch	arge Hose 🔲 Other:
DESCRIE	BE EQUIPM	IENT DECC	NTAMINAT	ION METH	IOD BEF	ORE SAME	PLING THE WELL
Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	inse 🔲 C	Other:		
DISPOSA	AL METHO	O OF PURG	E WATER:	Surface	e Dischar	ge 🗌 Dru	ms Disposal Facility
TOTAL D	EPTH OF V	VELL:	32.52	Feet			
DEPTH T	O WATER:	0011001	28.85	Feet			
WELL DI	OF WATER AMETER:	COLUMN:	3.67 Inch	Feet			_Minimum gallons to purge 3 well volumes Actual Gallons purged
				r	T		- · · ·
TIME	PURGED (GAL)	TEMP. °C	COND. mS/cm	рН			PHYSICAL APPEARANCE AND REMARKS
9:21	0						Began purging.
9:25	2	17:3	14.01	6.61			
9:29	4	17.6	17.3	6.53			
9:34	6	17.9	16.93	6.55			
						9:40	Samples collected
·							
				ļ			
			·····				
							·
<u>_</u>	<u> </u>						
0:13	:Total Time	e (hr:min)	6	:Total Vol	(gal)	0.46	:Average Flow Rate (gal/min)

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	erating Co	mpany	_	WELL ID:	N5-1					
	SYSTEM:	E	ME Syste	m	_	DATE:	February 8, 2005					
SITE L	OCATION:	N-5 Ju	unction Bo	x Site		SAMPLER:	G. Van Deventer					
PURGIN	G METHOD):	🗹 Hand Ba	iled 🗌 Pu	imp If Pu	ump, Type:						
SAMPLIN	IG METHO	D: •	🖸 Disposat	ole Bailer [Direct	from Disch	arge Hose 🔲 Other:					
DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:												
Gloves Alconox Distilled Water Rinse Other:												
DISPOSAL METHOD OF PURGE WATER: 🗌 Surface Discharge 🔲 Drums 🗹 Disposal Facility												
TOTAL D	TOTAL DEPTH OF WELL: 40.15 Feet											
DEPTH T	O WATER: OF WATER		<u>33.79</u> 6.36	Feet Feet		3	Minimum gallons to purge 3 well volumes					
WELL DI	AMETER:	2.0	Inch			5	Actual Gallons purged					
TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	рН			PHYSICAL APPEARANCE AND REMARKS					
11:25	0						Began purging					
11:27	1	17.5	4.79	6.61								
11:30	2	18.2	5.27	6.60			· · · · · · · · · · · · · · · · · · ·					
11:32	3	18.3	5.55	6.64								
11:34	4	18.4	5.14	6.60								
11:37	5	18.3	5.33	6.62								
						11:40	Samples collected					
						ļ						
							· · · · · · · · · · · · · · · · · · ·					
							·					
			<u>.</u>									
				·	l	· · · · ·	L					
0:12	12 :Total Time (hr:min)		5	:Total Vol	(gal)	0.42	:Average Flow Rate (gal/min)					

COMMENTS: -

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	erating Co.	mpany		WELL ID:	E5-1					
	SYSTEM:	E	ME Syster	n	-	DATE:	February 8, 2005					
SITE L	OCATION:	E-5 Ju	unction Bo	x Site		SAMPLER:	G. Van Deventer					
					-							
PURGINO	G METHOD	i.	⊡ Hand Ba	iled 🛄 Pu	imp If Pi	imp, Type:						
SAMPLIN	IG METHO	D:	🖸 Disposat	ole Bailer	✓ Direct	from Disch	arge Hose 🔲 Other:					
DESCRIE	BE EQUIPM	IENT DECC	NTAMINAT	ION METH	OD BEF	ORE SAMP	PLING THE WELL:					
Glove	Gloves Alconox Distilled Water Rinse Other:											
DISPOSAL METHOD OF PURGE WATER: 🗌 Surface Discharge 🔲 Drums 🗹 Disposal Facility												
TOTAL D	EPTH OF V	VELL:	45.35	Feet								
DEPTH T			35.23	Feet			Minimum gallage to purge 2 well volumes					
WELL DI	AMETER:	2.0	Inch	reel		6	Actual Gallons purged					
TIME		TEMP.	COND.	Ηα			PHYSICAL APPEARANCE AND REMARKS					
	(GAL)	°C	mS/cm	F								
10:37	. 0						Began purging.					
10:40	2	17.9	5.54	6.92			·					
10:45	4	18.8	4.01	6.90								
10:48	5.	18.9	4.17	6.88								
10:50	6	19.0	3.85	6.92								
						10:55	Samples collected					
					T I							
			· .									
					· ·							
				•								
			· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·					
						· ·						
0:13 :Total Time (hr:min) 6 :Tot					(gal)	0.46	:Average Flow Rate (gal/min)					

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



SYSTEM:EME SystemDATE:May 3, 2005SITE LOCATION:P-6 ReleaseSAMPLER:G. Van Deventer											
SITE LOCATION: P-6 Release SAMPLER: G. Van Deventer											
PURGING METHOD: If Hand Bailed Pump If Pump, Type:											
SAMPLING METHOD: Image: Disposable Bailer image: Direct from Discharge Hose image: Other:											
DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:											
Gloves Alconox Distilled Water Rinse Other:											
DISPOSAL METHOD OF PURGE WATER:											
DEPTH TO WATER: <u>32.76</u> Feet											
HEIGHT OF WATER COLUMN: 15.19 Feet 7 Minimum gallons to purge 3 well volumes WELL DIAMETER 2.0 Inch 8 Actual Gallons purged											
TIME PURGED TEMP. COND. (GAL) °C mS/cm pH* PHYSICAL APPEARANCE AND REMAR	S										
16:24 0 Began purging.											
16:28 2 16.6 18.86 6.17 * pH readings suspect											
16:32 4 16.9 17.71 6.21											
16:36 6 16.7 17.99 6.10											
16:40 8 16.9 18.92 5.28											
16.45 Samples collected											
0:16 :Total Time (hr:min) 8 :Total Vol (gal) 0.50 :Average Flow Rate (gal/min)											

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	erating Co.	mpany	_	WELL ID:	P6-2				
	SYSTEM:	E	ME Syster	n [:]	-	DATE:	May 3, 2005				
SITE L	OCATION:	P	-6 Releas	е	_	SAMPLER:	G. Van Deventer				
•											
PURGING	G METHOD	:	🗌 Hand Ba	iled 🗹 Pu	imp If Pu	imp, Type:	3-stage Mini-Monsoon Submersible Pump				
SAMPLIN	IG METHO	D:	🗸 Disposat	le Bailer	✓ Direct	from Disch	narge Hose 🔲 Other:				
DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL											
Gloves Alconox Distilled Water Rinse Other:											
DISPOSAL METHOD OF PURGE WATER: 🗌 Surface Discharge 🔲 Drums 🗹 Disposal Facility											
DEPTH TO WATER: <u>32.29</u> Feet											
HEIGHT (OF WATER	COLUMN:	40.16	Feet		20	_Minimum gallons to purge 3 well volumes Actual Gallons purged				
TIME	PURGED (GAL)	TEMP. °C	COND. mS/cm	pH*			PHYSICAL APPEARANCE AND REMARKS				
16:20	0						Began purging.				
16:22	5	16.4	14.45	5.09			* pH readings suspect				
16:24	10	17.0	14.83	5.07							
16:27	15	17.9	15.11	5.14							
16:30	20	18.1	15.18	5.17			· · · · · · · · · · · · · · · · · · ·				
16:32	25	18.1	15.14	4.88							
16:34	30	17.9	15.17	4.89							
16:36	35	18.0	15.25	4.92	İ		Purging completed.				
						16:36	Samples collected				
							· · · · · · · · · · · · · · · · · · ·				
				 			· · · · · · · · · · · · · · · · · · ·				
0:16	:Total Time	e (hr:min)	35	:Total Vol	(gal)	2.19	:Average Flow Rate (gal/min)				

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	perating Co.	mpany		WELL ID:	M5-1					
	SYSTEM:	E	ME Syster	n	-	DATE:	May 3, 2005					
SITE L	OCATION:	M	-5 SWD S	ite		SAMPLER:	G. Van Deventer					
					-		· · · · · · · · · · · · · · · · · · ·					
PURGIN	G METHOD	:	🗹 Hand Ba	iled 🗌 Pu	imp If Pi	ump, Type:	·					
SAMPLIN	IG METHO	D:	🗹 Disposat	ole Bailer	✓ Direct	t from Disch	arge Hose 🔲 Other:					
DESCRIE	BE EQUIPM	ENT DECC	NTAMINAT	ION METH	IOD BEF	ORE SAMP	PLING THE WELL:					
Glove	Gloves Alconox Distilled Water Rinse Other:											
DISPOSAL METHOD OF PURGE WATER: 🗌 Surface Discharge 🔲 Drums 🗵 Disposal Facility												
TOTAL DEPTH OF WELL: 32.52 Feet												
DEPTH TO WATER: 28.10 Feet												
WELL DI	AMETER:	2.0	Inch	reet		6	Actual Gallons purged					
				Г	[· · · ·	 T					
TIME	PURGED (GAL)	°C	COND. mS/cm	pH*			PHYSICAL APPEARANCE AND REMARKS					
15:50	0						Began purging.					
15:54	2	16.8	14.14	5.26		ļ	* pH readings suspect					
15:59	4	17.1	13.53	5.31								
16:05	6	17.5	14.47	4.79								
						16:10	Samples collected					
							· · · · · · · · · · · · · · · · · · ·					
				2								
ļ												
[
	ļ											
·							·					
	ļ											
				· · · · · · · · · · · · · · · · · · ·			L					
0:15	:Total Time	e (hr:min)	6	Total Vol	(gal)	0.40	Average Flow Rate (gal/min)					

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	perating Co.	mpany	_	WELL ID:	N5-1			
	SYSTEM:	E	ME Syster	m		DATE:	May 3, 2005			
SITE L	OCATION:	N-5 JI	unction Bo	ox Site		SAMPLER:	G. Van Deventer			
PURGING	з метнор	c.	🗹 Hand Ba	iled 🗌 Pu	imp lf Pu	mp, Type:	·			
SAMPLIN	IG METHO	D:	🗹 Disposat	ole Bailer	J Direct	from Disch	arge Hose 📋 Other:			
DESCRIE	BE EQUIPM	IENT DECC	NTAMINAT	ION METH	IOD BEF	ORE SAMF	PLING THE WELL:			
Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	inse 🗌	Other:	<u> </u>				
DISPOSA		O OF PURG	E WATER:	Surface	e Dischar	ge 🗌 Dru	ms ⊡Disposal Facility			
TOTAL DEPTH OF WELL: 40.15 Feet DEPTH TO WATER: 34.50 Feet HEIGHT OF WATER COLUMN: 5.65 Feet WELL DIAMETER: 2.0 Inch										
TIME	VOLUME PURGED (GAL)	TEMP. °C	COND. mS/cm	pН			PHYSICAL APPEARANCE AND REMARKS			
17:00	0		·			v	Began purging.			
17:00	2	16.5	6.88	6.87						
17:08	4	17.5	6.73	6.63						
17:12	6	17.5	6.76	6.64						
					· ·					
	· · ·					17:15	Samples collected			
							· · · · · · · · · · · · · · · · · · ·			
		_								
		· · · · ·								
							·			
				ļ			· · · · · · · · · · · · · · · · · · ·			
			·				· · · · · · · · · · · · · · · · · · ·			
0.12	Total Time	e (hr:min)	6	Total Vol	(gal)	0.50	Average Flow Rate (gal/min)			
		<u></u> ///////_	~		790.0					

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.



	CLIENT:	RICE Op	erating Co.	mpany		WELL ID: E5-1		
	SYSTEM:	E	ME Syster	m		DATE:	May 3, 2005	
SITE L	OCATION:	E-5 Ju	unction Bo	x Site	- - -	SAMPLER:	G. Van Deventer	
PURGING	G METHOD	:	🗹 Hand Ba	iled 🗌 Pu	imp If Pu	imp, Type:		
SAMPLIN	IG METHO	D:	🗹 Disposat	ble Bailer	기 Direct	from Disch	arge Hose 🔲 Other:	
DESCRIE	BE EQUIPM	ENT DECC	NTAMINAT	ION METH	IOD BEF	ORE SAMP	PLING THE WELL	
Glove Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	inse 📋 C	Other:			
DISPOSA		O OF PURG	E WATER:	Surface	e Dischar	ge 🗌 Dru	ms ⊡Disposal Facility	
TOTAL D DEPTH T HEIGHT (WELL DI/	EPTH OF V O WATER: OF WATER AMETER:	VELL: COLUMN: 2.0	45.35 35.44 9.91 Inch	Feet Feet Feet		5	Minimum gallons to purge 3 well volumes Actual Gallons purged	
TIME	VOLUME PURGED (GAL)	TEMP. °C	COND. mS/cm	рН		-	PHYSICAL APPEARANCE AND REMARKS	
16:43	0						Began purging.	
16:47	2	18.3	3.9	7.22				
16:53	4	18.5	3.01	7.33				
16:58	6	18.6	3.16	7.21				
						17:00	Samples collected	
· · · · · · · · · · · · · · · · ·								
						· ·	······	
							· · · · · · · · · · · · · · · · · · ·	
			· · ·		 			
				L	<u> </u>			
0:15	:Total Time	e (hr:min)	6	:Total Vol	(gal)	0.40	:Average Flow Rate (gal/min)	

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

	CLIENT: RICE Operating Company			_	WELL ID:	P6-1			
	SYSTEM:	EME System				DATE:	August 11, 2005		
SITE L	SITE LOCATION: P-6 Release						G. Van Deventer		
PURGIN	G METHOD	:	🗹 Hand Ba	iled 🗌 Pu	imp If Pu	imp, Type:			
SAMPLIN	IG METHO	D:	🗹 Disposat	ble Bailer	✓ Direct	from Disch	arge Hose 🔲 Other:		
DESCRIE	BE EQUIPM	ENT DECC	NTAMINAT	ION METH		ORE SAMF	PLING THE WELL:		
Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	inse 🗌 C	Other:				
DISPOSA					Dischar	ne 🗍 Dru	Ims. Disposal Facility		
TOTAL D DEPTH T HEIGHT WELL DI	EPTH OF V O WATER: OF WATER AMETER:	VELL: COLUMN: 2.0	47.95 32.76 15.19 Inch	Feet Feet Feet	·	7 8	_Minimum gallons to purge 3 well volumes _Actual Gallons purged		
TIME	VOLUME PURGED (GAL)	TEMP. °F	COND. mS/cm	рН			PHYSICAL APPEARANCE AND REMARKS		
16:51	0						Began purging.		
16:56	2	70.2	24.63	7.76					
17:01	4	68.7	25.14	7.73		·			
17:10	6	67.7	25.86	7.73					
17:15	8	67.4	26.26	7.72					
						17:20	Samples collected		
							· · · ·		
						·			
	L						· · · · · · · · · · · · · · · · · · ·		
			·	l			L		
0:24	:Total Time	e (hr:min)	8	:Total Vol	(gal)	0.33	Average Flow Rate (gal/min)		
COMMEN	JTS								

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

	CLIENT RICE Operating Company				WELL ID:	P6-2			
	SYSTEM: EME System		-	DATE:	August 11, 2005				
SITE L	SITE LOCATION: P-6 Release			•	SAMPLER:	G. Van Deventer			
· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·		
PURGING	G METHOD	:	🗌 Hand Ba	iled 🗹 Pu	imp If P	ump, Type:	3-stage Mini-Monsoon Submersible Pump		
SAMPLIN	IG METHO	D:	🗹 Disposat	ble Bailer	✓ Direc	t from Disch	arge Hose 📋 Other:		
DESCRIE		ENT DECC	NTAMINAT	ION METH		ORE SAMP	PLING THE WELL:		
Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	tinse 🗌 C	ther:	<u> </u>	·		
DISPOSAL METHOD OF PURGE WATER: 🗌 Surface Discharge 🔲 Drums 🗵 Disposal Facility									
TOTAL D	EPTH OF V	VELL:	72.45	Feet	, •				
DEPTH T	O WATER: OF WATER	COLUMN	32.29	Feet		20	Minimum gallons to purge 3 well volumes		
WELL DI	AMETER:	2.0	Inch			40	Actual Gallons purged		
TIME	VOLUME PURGED	TEMP.	COND.	рН			PHYSICAL APPEARANCE AND REMARKS		
	(GAL)_								
17:52	0						Began purging.		
17:57	10	73.0	18.11	7.67			· · · · · · · · · · · · · · · · · · ·		
18:03	20	71.2	18.51	7.76					
18:07	30	70.3	18.53	7.68					
18:14	40	70.8	18.72	7.81					
	· · ·						Purging completed.		
						18:16	Samples collected		
						1			
			······································						
						s			
0:22	:Total Time	e (hr:min)	40	:Total Vol	(gal)	1.82	:Average Flow Rate (gal/min)		
COMMEN	COMMENTS:								

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

	CLIENT: RICE Operating Company					WELL ID:	M5-1			
	SYSTEM:	EME System			_	DATE:	August 11, 2005			
SITE L	OCATION:	M	-5 SWD S	ite	_	SAMPLER:	G. Van Deventer			
PURGIN	3 METHOD	:	🗹 Hand Ba	iled 🗌 Pu	imp lf Ρι	ump, Type:				
SAMPLIN	IG METHOI	D:	⊡ Disposat	ole Bailer	☑ Direct	from Disch	arge Hose 🔲 Other:			
DESCRIE	PLING THE WELL:									
Glove	s 🗹 Alcond	ox 🗹 Distil	led Water R	tinse 🗌 C	Other:					
DISPOSA			E WATER:	Surface	e Dischar	ge 🗌 Dru	lms ⊡Disposal Facility			
TOTAL D DEPTH T HEIGHT (WELL DI/	EPTH OF V O WATER: OF WATER AMETER:	VELL: COLUMN: 2.0	32.52 28.10 4.42 Inch	Feet Feet Feet		2	_Minimum gallons to purge 3 well volumes _Actual Gallons purged			
TIME	VOLUME PURGED (GAL)	TEMP. °F	COND. mS/cm	рН			PHYSICAL APPEARANCE AND REMARKS			
19:01	0						Began purging.			
19:09	2	71.4	18.76	7.79						
19:17	4	67.8	18.81	7.67						
19:20	6	67.0	18.89	7.63						
						19:23	Samples collected			
			,							
L										
		· ·								
							·			
0:19	:Total Time	e (hr:min)	6	Total Vol	(gal)	0.32	Average Flow Rate (gal/min)			
COMMEN	COMMENTS:									

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

	CLIENT: RICE Operating Company				WELL ID:	N5-1		
	SYSTEM:	EME System				DATE:	August 11, 2005	
SITE L		N-5 Ji	unction Bo	ox Site		SAMPLER:	G. Van Deventer	
PURGIN	S METHOD	:	🗹 Hand Ba	iled 🗌 Pu	mp If Pu	mp, Type:		
SAMPLIN	IG METHOI	D:	🖸 Disposal	ble Bailer	Direct	from Disch	arge Hose 🔲 Other	
DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:								
Glove	s 🗹 Alcono	ox 🗹 Distil	led Water R	tinse 🗌 C	Other:			
DISPOSA		O OF PURG	E WATER:	Surface	e Discharo	ae 🗌 Dru	ms ⊡Disposal Facility	
		A/ELL:	40.15	East		5		
DEPTH T	O WATER:	VELL.	34.50	Feet			-	
HEIGHT	OF WATER	COLUMN:	5.65	Feet		3	Minimum gallons to purge 3 well volumes	
		2.0			•	0		
ТІМЕ	VOLUME PURGED	TEMP.		рН			PHYSICAL APPEARANCE AND REMARKS	
	(GAL)	F	115/011				· · · · · · · · · · · · · · · · · · ·	
14:10	0						Began purging.	
14:17	2	71.3	6.07	7.71				
14:21	4	68.5	6.14	7.75			· · · · · · · · · · · · · · · · · · ·	
14:26	6	68.9	6.14	7.79				
						14:29	Samples collected	
				·				
ļ				· · ·				
0:16	:Total Time	e (hr:min)	6	:Total Vol	(gal)	0.38	:Average Flow Rate (gal/min)	
COMMEN	170							

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

	CLIENT: RICE Operating Company				WELL ID:	E5-1		
	SYSTEM:	EME System				DATE:	August 11, 2005	
SITE L	OCATION:	E-5 Ju	unction Bo	x Site		SAMPLER:	G. Van Deventer	
PURGINO	G METHOD		✓ Hand Ba	iled 🗌 Pu	mp If Pu	mp, Type:		
SAMPLIN	IG METHO	D:	🗹 Disposat	ole Bailer	Direct	from Disch	arge Hose 🔲 Other:	
DESCRIE	BE EQUIPM	ENT DECC	NTAMINAT	ION METH		ORE SAMF	PLING THE WELL:	
Gloves 🗹 Alconox 🗹 Distilled Water Rinse 🗌 Other:								
DISPOSA		OF PURG		Surface	e Discharg	ge 🗌 Dru	ms ⊡Disposal Facility	
	ΕΡΤΗ ΟΕ ν		45 35	Feet				
DEPTH T	O WATER:		35.44	Feet		_		
WELL DI	OF WATER AMETER:	COLUMN: 2.0	<u>9.91</u> Inch	Feet	•	<u>5</u>	Minimum gallons to purge 3 well volumes Actual Gallons purged	
				r				
TIME	PURGED	TEMP. ⁰⊑	COND.	рН			PHYSICAL APPEARANCE AND REMARKS	
	(GAL)							
19:47	0						Began purging.	
19:51	. 2	69.9	3.42	8.15				
19:54	4	68.6	3.2	8.02				
19:58	6	68.3	3.06	7.99				
						20:00	Samples collected	
· .								
`								
							-	
		ü						
						·····	· · · · · · · · · · · · · · · · · · ·	
				-			· · · · · · · · · · · · · · · · · · ·	
0.11	Total Time	(hr:min)	6	·Total Vol	(gal)	0 55	Average Flow Rate (gal/min)	
			·		(J			

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT:	RICE Op	erating Co.	mpany	WELL ID:	P6-1			
SYSTEM:		EME		DATE:	November 28, 2005			
SITE LOCATION:	F	-6 Releas	e	SAMPLER:	Rozanne Johnson			
PURGING METHOD: Image: Constraint of the constraint of t								
DISPOSAL METHO	O OF PURG	E WATER:	🗌 On-si	te Drum 🗌 Drums 🛛	SWD Disposal Facility			
TOTAL DEPTH OF WELL:47.95FeetDEPTH TO WATER:32.55FeetHEIGHT OF WATER COLUMN:15.40FeetWELL VOLUME:2.5Gal.8Gallons purged prior to sampling								
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL A	PPEARANCE AND REMARKS			
9:10	18	21.92	7.08	Clear / No Odor				
				Samples Collected				
				BTEX (2-40ml VOA)				
Major Ions/TDS (1-1000ml Plastic)								
0:00 :Total Time (hr:min) :Average Flow Rate (gal/min)								

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT RICE Operating Company				WELL ID:	P6-2				
SYSTEM:		EME		DATE:	November 28, 2005				
SITE LOCATION:	P	-6 Releas	e	SAMPLER:	Rozanne Johnson				
PURGING METHOD: I Hand Bailed Pump, Type:									
SAMPLING METHO	D:	🕗 Disposa	able Bailer	Direct from Disch	arge Hose 🗋 👘 Other:				
			_	_	_				
DISPOSAL METHOD	O OF PURG	E WATER:	🗌 On-s	ite Drum 📋 Drums	SWD Disposal Facility				
TOTAL DEPTH OF V	VELL:	72.45	Feet						
DEPTH TO WATER:		32.48	Feet	2					
WELL VOLUME:	6.4	Gal.	1 661	20	Gallons purged prior to sampling				
				· · · · · · · · · · · · · · · · · · ·					
TIME	TEMP.	COND.	рН	PHYS	CAL APPEARANCE AND REMARKS				
	C	morcm		+					
				<u> </u>	······································				
10:55	17.7	17.61	7.06	Red Silt Color / No Od	or				
				Samples Collected	·····				
				BTEX (2-40ml VOA)					
Major Ions/TDS (1-1000ml Plastic)									
0:00 :Total Time	e (hr:min)		:Average	Flow Rate (gal/min)					

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT:	RICE Op	perating Co.	mpany	WELL ID:	M5-1s
SYSTEM:		EME		DATE:	November 28, 2005
SITE LOCATION		<u>M-5 SWD</u>		SAMPLER:	Rozanne Johnson
			-		· · · · · · · · · · · · · · · · · · ·
PURGING METHOD	:	🖸 Hand B	ailed 🗌	Pump, Type:	
SAMPLING METHO	D:	🕗 Disposa	able Bailer	Direct from Dischar	rge Hose 🗌 Other:
			-		
				_	
DISPOSAL METHOD	OF PURG	E WATER:	On-s	ite Drum 📋 Drums	SWD Disposal Facility
TOTAL DEPTH OF V	VELL:	39.90	Feet		
DEPTH TO WATER: HEIGHT OF WATER	COLUMN	27.87	Feet	2 In	Well Diameter
WELL VOLUME:	1.9	Gal.		6 0	Sallons purged prior to sampling
r	TEMO	0.01/0			
TIME	° C	COND. mS/cm	рН	PHYSIC	AL APPEARANCE AND REMARKS
					· · · · · · · · · · · · · · · · · · ·
45.00	40.0	47.50	0.57		· · · · · · · · · · · · · · · · · · ·
15:20	18.3	17.53	6.57	Clear / No Odor	
				Samples Collected	·····
				BTEX (2-40ml VOA)	
				Major Ions/TDS (1-1000	Oml Plastic)
				<u> </u>	
0:00 :Total Time	e (hr:min)		:Average	Flow Rate (gal/min)	

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major lons and TDS analysis.

.

CLIENT: RICE Operating Company				WELL ID:	M5-1d
SYSTEM:		EME		DATE:	November 28, 2005
SITE LOCATION:		M-5 SWD		SAMPLER:	Rozanne Johnson
PURGING METHOD	: D:	 ✓ Hand B ✓ Disposa 	ailed 🗌 able Bailer	Pump, Typ <u>e:</u> Direct from Discha	arge Hose 🗌 Other
DISPOSAL METHOD	OF PURG	E WATER:	🗌 On-si	te Drum 🔲 Drums	SWD Disposal Facility
TOTAL DEPTH OF V DEPTH TO WATER: HEIGHT OF WATER WELL VOLUME:	VELL: COLUMN: 4.3	55.10 28.10 27.00 Gal.	Feet Feet Feet	2 lr 150	n. Well Diameter Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	pН	PHYSIC	CAL APPEARANCE AND REMARKS
16:50	17.9	18.45	6.67	Clear / No Odor	
				Samples Collected	
				BTEX (2-40ml VOA)	
				Major lons/TDS (1-100	Oml Plastic)
0:00 :Total Time	e (hr:min)		Average	Flow Rate (gal/min)	

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for ETEX, Major Ions and TDS analysis.

•

CLIENT:	RICE Op	erating Co.	mpany	WELL ID:	N5-1	
SYSTEM:		EME		DATE:	November 28, 2005	
SITE LOCATION:		Jct. N-5		SAMPLER:	Rozanne Johnson	
·						
PURGING METHOD	C.	🖸 Hand B	ailed 🗌	Pump, Type:		
SAMPLING METHO	D:	🕗 Disposa	able Bailer	Direct from Discharge	Hose 🗌 Other:	
DISPOSAL METHOL	J OF PURG	E WATER:				
TOTAL DEPTH OF V	VELL:	40.12	Feet			
HEIGHT OF WATER	COLUMN:	7.22	Feet	2 In. W	/ell Diameter	
WELL VOLUME:	1.2	Gal.	-	5 Gall	ons purged prior to sampling	
	TEMP	COND	[
TIME	°C	mS/cm	рН	PHYSICAL	APPEARANCE AND REMARKS	
14:15	18.3	5.25	6.78	Heavy Sheen / Gray Color	(
				Samples Collected		
				BTEX (2-40ml VOA)		
Major Jons/TDS (1-1000ml Plastic)						
0:00 :Total Time	e (hr:min)		:Average	Flow Rate (gal/min)		
					······	

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT:	RICE Op	erating Co	mpany	WELL ID:	E5-1		
SYSTEM		EME		DATE:	November 28, 2005		
SITE LOCATION:		<u>JCT. E-5</u>		SAMPLER:	Rozanne Johnson		
				· ·			
PURGING METHOD	:	Hand B	ailed 🗌	Pump, Typ <u>e:</u>			
SAMPLING METHO	D:	🕗 Disposa	ble Bailer[Direct from Discharge H	lose 🗌 Other:		
•							
DISPOSAL METHOL	OF PURG	E WATER:	Un-si	ie Drum 📋 Drums 🕑	SVVD Disposal Facility		
TOTAL DEPTH OF V	VELL:	45.35	Feet				
DEPTH TO WATER: HEIGHT OF WATER	COLUMN	<u> </u>	Feet	2 In We	Il Diameter		
WELL VOLUME:	1.5	Gal.	1001	5 Gallor	ns purged prior to sampling		
TIME	TEMP.	COND.	pН	PHYSICAL A	PPEARANCE AND REMARKS		
	<u>°С</u>	mS/cm					
				·			
18:10	18.5	2.43	6.88	Clear / No Odor			
				Samples Collected			
				BTEX (2-40ml VOA)			
	Plastic)						
0:00 :Total Time	e (hr:min)		Average	Flow Rate (gal/min)			

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

LABORATORY REPORTS

AND

CHAIN OF CUSTODY DOCUMENTATION

(This information provided on compact disk)