

AP - 45

ANNUAL MONITORING REPORT

YEAR(S):
2009



CERTIFIED MAIL
RETURN RECEIPT NO. 7099 3400 0017 1737 1889

April 2, 2010

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

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**RE: 2009 ANNUAL GROUNDWATER MONITORING REPORT
EME P-6 Line Leak Site (AP-45)
T20S, R37E, Section 6, Unit Letter P, Lea County, New Mexico**

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2009 Annual Groundwater Monitoring Report for the P-6 Line Leak Site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

In accordance with the NMOCD-approved *Corrective Action Plan*, ROC has been operating a groundwater recovery system to remove 2,460 kg of chloride mass attributable to the line leak since September 2009. After re-seeding and application of soil amendments in April 2007, native vegetation has now reached full productive capacity. We expect to fully meet termination requirements for both the vadose zone and groundwater abatement objectives by the end of 2010.

ROC is the service provider (agent) for the EME SWD 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 Parties, 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 please contact Hack Conder at (575) 393-9174.

Sincerely,

Gilbert J. Van Deventer, PG, REM

cc: Hack Conder (Rice Operating Co., Hobbs NM)

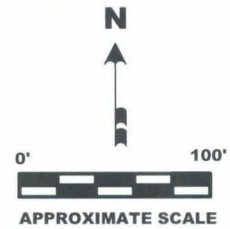
enclosures: map, table, graphs

MAP LEGEND

P6-1 Monitoring Well
3527.77 Elevation (Ft AMSL)

3527.60 Groundwater Elevation Contour
(Contour Interval = 0.20 feet)

Cl 6990 TDS 13600 Chloride and TDS
Concentrations in mg/L



Barbed
Wire
Fence

Groundwater
Gradient
0.002 ft/ft

Cl 3700
TDS 8150 P6-4
3526.12

P-6
Release
Site
3525.80

P6-1
3525.82
Cl 4900
TDS 9790

Rice Operating
Co.
10" Poly Water Line

M-5
SWD
Well

M5-1

Cl 5900
TDS 13200 P6-3
3525.20



EME P-6 Release Site (AP-45)
T20S - R37E - Section 6 - Unit P
RICE Operating Company

GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
NOVEMBER 10, 2009

Table 1 - Summary of Groundwater Monitoring Results

Monitoring Well	Sample Date	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
P6-1	01/10/02	10,700	20,248	< 0.002	< 0.002	< 0.002	< 0.006	36.70	3522.39
	05/14/02	8,060	18,200	< 0.001	< 0.001	< 0.001	< 0.001	36.73	3522.36
	08/15/02	9,570	16,900	< 0.001	< 0.001	< 0.001	< 0.001	36.95	3522.14
	11/06/02	9,040	17,400	< 0.001	< 0.001	< 0.001	< 0.001	37.15	3521.94
	02/27/03	8,860	15,000	< 0.001	< 0.001	< 0.001	< 0.001	37.12	3521.97
	05/29/03	8,680	20,000	< 0.001	< 0.001	< 0.001	< 0.001	37.19	3521.90
	08/21/03	8,860	17,800	< 0.001	< 0.001	< 0.001	< 0.001	37.43	3521.66
	11/19/03	8,690	18,500	< 0.001	< 0.001	< 0.001	< 0.001	37.64	3521.45
	02/20/04	8,510	16,600	< 0.001	< 0.001	< 0.001	< 0.001	37.84	3521.25
	05/06/04	8,510	17,400	< 0.001	< 0.001	< 0.001	< 0.001	37.36	3521.73
	08/10/04	9,040	17,200	< 0.001	< 0.001	< 0.001	< 0.001	37.03	3522.06
	11/09/04	9,130	17,600	< 0.001	< 0.001	< 0.001	< 0.001	36.28	3522.81
	02/07/05	8,210	17,800	< 0.001	< 0.001	< 0.001	< 0.001	33.54	3525.55
	05/03/05	7,090	19,300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.33
	08/11/05	9,210	16,600	< 0.001	< 0.001	< 0.001	< 0.001	32.81	3526.28
	11/28/05	7,580	14,700	< 0.001	< 0.001	< 0.001	< 0.001	32.81	3526.28
	02/20/06	7,510	15,500	< 0.001	< 0.001	< 0.001	< 0.001	32.43	3526.66
	05/16/06	8,160	15,600	< 0.001	< 0.001	< 0.001	< 0.001	32.44	3526.65
	08/23/06	7,370	12,900	< 0.001	< 0.001	< 0.001	< 0.001	32.96	3526.13
	11/09/06	6,700	13,200	---	---	---	---	31.98	3527.11
	02/28/07	6,930	14,900	---	---	---	---	31.32	3527.77
	06/06/07	6,720	15,200	---	---	---	---	31.31	3527.78
	08/23/07	6,448	15,826	---	---	---	---	31.56	3527.53
	11/08/07	6,500	12,186	---	---	---	---	31.54	3527.55
	02/20/08	6,200	12,700	---	---	---	---	31.52	3527.57
	05/14/08	6,200	11,900	---	---	---	---	31.63	3527.46
	08/19/08	5,900	11,900	---	---	---	---	32.22	3526.87
	11/18/08	5,700	11,400	---	---	---	---	32.45	3526.64
	02/17/09	5,600	10,500	---	---	---	---	32.43	3526.66
	05/15/09	5,300	10,500	---	---	---	---	32.52	3526.57
	08/31/09	5,100	10,400	---	---	---	---	32.97	3526.12
	11/10/09	4,900	9,790	---	---	---	---	33.27	3525.82
P6-2	02/20/04	9,040	19,700	< 0.001	< 0.001	< 0.001	< 0.001	37.97	3521.73
	05/06/04	8,330	16,100	< 0.001	< 0.001	< 0.001	< 0.001	37.29	3522.41
	08/10/04	8,240	15,400	< 0.001	< 0.001	< 0.001	< 0.001	36.97	3522.73
	11/09/04	7,670	15,700	< 0.001	< 0.001	< 0.001	< 0.001	35.83	3523.87
	02/07/05	7,030	15,300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.94
	05/03/05	6,050	14,100	< 0.001	< 0.001	< 0.001	< 0.001	32.29	3527.41
	08/11/05	7,540	14,300	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.08
	11/28/05	7,660	9,170	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.08
	02/20/06	5,620	12,600	< 0.001	< 0.001	< 0.001	< 0.001	32.42	3527.28
	05/16/06	6,290	11,400	< 0.001	< 0.001	< 0.001	< 0.001	32.50	3527.20
	08/23/06	5,490	9,850	< 0.001	< 0.001	< 0.001	< 0.001	33.03	3526.67
	11/09/06	4,860	9,850	---	---	---	---	31.79	3527.91
	02/28/07	4,890	9,390	---	---	---	---	31.17	3528.53
	06/06/07	4,860	10,800	---	---	---	---	31.16	3528.54
	08/23/07	4,649	11,613	---	---	---	---	31.58	3528.12
	11/08/07	4,450	8,643	---	---	---	---	31.61	3528.09
	02/20/08	4,300	8,440	---	---	---	---	31.60	3528.10
	05/14/08	4,200	8,490	---	---	---	---	31.75	3527.95
	08/19/08	4,500	7,680	---	---	---	---	32.31	3527.39
	11/18/08	3,250	7,150	---	---	---	---	32.59	3527.11
	02/17/09	2,950	6,030	---	---	---	---	32.58	3527.12
	05/15/09	2,800	6,030	---	---	---	---	32.63	3527.07
	08/31/09	2,550	5,460	---	---	---	---	33.11	3526.59
	11/10/09	2,420	4,960	---	---	---	---	33.38	3526.32

Table 1 - Summary of Groundwater Monitoring Results (Continued)

Monitoring Well	Sample Date	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
P6-3	08/23/06	8,300	13,100	< 0.001	< 0.001	< 0.001	< 0.001	34.19	3525.89
	11/09/06	7,520	14,100	0.013	0.001	0.003	< 0.001	33.32	3526.76
	02/28/07	7,690	13,500	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.46
	06/06/07	7,720	18,100	< 0.001	0.0020	< 0.001	0.001	32.61	3527.47
	08/23/07	7,448	17,464	< 0.002	< 0.002	< 0.002	< 0.006	32.84	3527.24
	11/08/07	7,300	13,695	< 0.001	< 0.001	< 0.001	< 0.003	32.76	3527.32
	02/20/08	7,200	13,200	< 0.001	< 0.001	< 0.001	< 0.003	32.74	3526.96
	05/14/08	6,700	14,100	< 0.002	< 0.002	< 0.002	< 0.006	32.87	3526.83
	08/19/08	7,000	13,400	< 0.001	< 0.001	< 0.001	< 0.003	33.41	3526.29
	11/18/08	6,800	14,100	< 0.001	< 0.001	< 0.001	< 0.003	33.65	3526.05
	02/17/09	6,700	12,200	< 0.001	< 0.001	< 0.001	< 0.003	33.61	3526.09
	05/15/09	6,300	12,600	< 0.001	< 0.001	< 0.001	< 0.003	33.72	3525.98
	08/31/09	6,050	11,600	< 0.001	< 0.001	< 0.001	< 0.003	34.21	3525.49
	11/10/09	5,900	13,200	< 0.001	< 0.001	< 0.001	< 0.003	34.50	3525.20
P6-4	08/23/06	6,750	13,400	< 0.001	< 0.001	< 0.001	< 0.001	33.29	3526.21
	11/09/06	6,070	11,900	< 0.001	< 0.001	< 0.001	< 0.001	32.23	3527.27
	02/28/07	6,080	12,100	< 0.001	< 0.001	< 0.001	< 0.001	31.57	3527.93
	06/06/07	5,760	13,200	< 0.001	< 0.001	< 0.001	< 0.001	31.56	3527.94
	08/23/07	5,498	13,746	< 0.002	< 0.002	< 0.002	< 0.006	31.86	3527.64
	11/08/07	5,300	10,261	< 0.001	< 0.001	< 0.001	< 0.003	31.83	3527.67
	02/20/08	5,100	9,740	< 0.001	< 0.001	< 0.001	< 0.003	31.83	3527.87
	05/14/08	5,400	10,800	< 0.002	< 0.002	< 0.002	< 0.006	31.97	3527.73
	08/19/08	5,700	9,650	< 0.001	< 0.001	< 0.001	< 0.003	32.52	3527.18
	11/18/08	4,500	9,880	< 0.001	< 0.001	< 0.001	< 0.003	32.77	3526.93
	02/17/09	4,450	8,830	< 0.001	< 0.001	< 0.001	< 0.003	32.73	3526.97
	05/15/09	4,050	8,130	< 0.001	< 0.001	< 0.001	< 0.003	32.95	3526.75
	08/31/09	4,500	9,700	< 0.001	< 0.001	< 0.001	< 0.003	33.28	3526.42
	11/10/09	3,700	8,150	< 0.001	< 0.001	< 0.001	< 0.003	33.58	3526.12
RW-1	03/31/09	6,100	11,400	< 0.001	< 0.001	< 0.001	< 0.003	32.91	3526.45
	05/15/09	6,100	11,900	< 0.001	< 0.001	< 0.001	< 0.003	32.95	3526.41
	08/31/09	5,800	13,200	< 0.001	< 0.001	< 0.001	< 0.003	33.43	3525.93
	11/10/09	5,700	12,700	< 0.001	< 0.001	< 0.001	< 0.003	---	---

