

The RETEC Group, Inc. 1001 W. Seneca St., Suite 204, Ithaca, NY 14850-3342 T 607.277.5716 F 607.277.9057 www.ensr.aecom.com

December 20, 2007

HIC 2 7 2007

Mr. Glenn May, C.P.G. New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203

Subject: Semiannual Monitoring Report, October 2007 Scajaquada Creek Site (#915141B), Buffalo, NY

Dear Mr. May;

As required by the Operation and Maintenance (O&M) Plan, dated February 8, 2005, this report provides a semiannual summary of operations, maintenance, and field observations made by ENSR Corporation (dba The RETEC Group, Inc. [RETEC]) and National Fuel Gas (NFG) at the Scajaquada Creek site. The period discussed herein is from May 2007 through October 2007.

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Constructed Sediment Cap Observations

During the field observations, the creek water was typically of low clarity, though no erosion of the sediment cap was evident. The armored expressway runoff channels were also all intact.

Previous Period's DNAPL Systems Operations

The Southern DNAPL Collection System was turned off on March 2nd because the storage tank was nearing capacity. On July 23rd, the tank was emptied. An estimated 1900 gallons of liquid was transported by Frank's Vacuum Service to the Chemtron Disposal Facility in Avon, Ohio. The waste manifest is included as an attachment to this report. The Southern System was restarted after the tank was emptied and was observed to function properly between July 23rd and October 29th – the date of the most recent system inspection.

Electrical service to the Northern DNAPL Collection System was interrupted between May 12th and May 31st, likely due to a fire in a nearby building. Electrical service was restored to the Northern System on June 1st. The system was restarted and was observed to function properly between June 7th and October 29th.

The volumes of DNAPL recovered this period (15 gallons in the Southern System and 33 gallons in the Northern System) are visual estimates only because the oil/water interface probe readings taken during the site visit were inconclusive. The volumes of DNAPL recovered to date appear to be approximately 1269 gallons by the Southern System and 373 gallons by the Northern System. System monitoring logs are attached.



Mr. Glenn May, C.P.G. Page 2

Conclusions

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The constructed sediment cap appears intact. The DNAPL recovery program continues and both systems appear to be functioning properly.

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Please call me at (607) 277-5716 if you have any questions or comments.

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Daniel Shearer, P.E. Site Engineer

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Mark Hofferbert, P.E. Project Engineer

Attachments: South DNAPL System Monitoring Log North DNAPL System Monitoring Log Waste Manifest

CC: B. Sadowski, K. Roblee – NYSDEC, Buffalo
C. Dowd – NYSDEC, Albany
P. McCarthy, Esq. – NYSOAG Environmental Crimes Unit
G. Litwin – NYSDOH Bureau of Environmental Exposure Investigation
J. Clark, T. Alexander – NFG
K. Hogan – PLHB&B
J. Finn – RETEC
File: 04870-024-750



SOUTHERN SYSTEM

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		Field Mea	surements	(by OWI probe) Calculations (total tank contents) * Calculations (this period recovery)		∋ry)											
Date	Initials	Manhole rim to top of LNAPL (ft)	Manhole rim to top of Water (ff) (estimated)	Manhole rim to top of DNAPL (ff)	Manhole rim to bottom of Tank (ft)	LNAPL (gal)	Water (gai)	DNAPL (gal)	Total (gal)	Water Increase (gal)	NAPL Increase (gal)	% NAPL	(Bpd) NAPL	Total Flow (gpd)	Operator's Notes	Transporter	Disposal Facility
24-Jun-99	mrh	9.05	9.05	9.05	9.05	0	0	0	0	0	0	0%		0	90% construction complete, begin initial testing		
29-Jun-99	mrh/day	6.80	6.80	9.05	9.05	0	695	0	695	695	0	0%		139	Complete initial system test, PW2003 has silt damage		
23-Jul-99	mrh/day	6.80	6.80	9.05	9.05	0	695	0	695	0	Ο	0%		0	Recommence shakedown with peristaltic pump		
30-Jul-99	day	6.34	6.34	8.95	9.05	0	806	31	837	111	31	22%	4.41	20	Shakedown, flow adjustment		
26-Aug-99	jhe	5.90	5.90	8.73	9.05	0	874	99	973	68	68	50%	2.52	5	Routine system check, slow drip from tank bung noted (0.5 gpd?)		
16-Sep-99	mrh/bdc	5.79	5.80	8.75	9.05	3	911	93	1007	37	-3	2 Sig		2	Significant (2 gpd?) DNAPL loss through bung drip, PW2003 reinstalled		
28-Sep-99	mrh/cc	3.30	3.32	8.61	9.05	6	1633	136	1775	723	46	6%	3.86	64	Tank emptied (was full, pump off), bung replaced,	IWR / BFC	Research Oil
28-Sep-99	mrh/cc	9.05	9.05	9.05	9.05	0	0	0	0	0	0	0%	4.04	0	vault cleaned, Now setting reduced to 4.5		
3-Oct-99	mrn	8.75	8.75	9,03	9.05	0	86	9	93	86		7%	1.24	19	Measurements are visual estimates only, now setting reduced to 3.5		
29-Oct-99		6.81	0.75 6.81	9.03	9.05	0	670	22	93 692	584	15	3%	0.86	33	Flow setting decreased to 4.0		
2-Dec-99	mrh/day	6.09	6.01	8.77	9.05	3	824	86	914	154	68	31%	2.00	7	Flow setting increased to 4.7 (24 gpd), timer installed/set for 1pm to 2pm operation		
16-Dec-99	cc														Pump running but no flow, Timer reset for 3 hr per day operation		
9-Mar-00	mrh/day	6.09	6.10	8.89	9.05	3	861	49	914	37	-37			0	PW2000 running but no flow, Peristaltic installed (2 hr/day), DNAPL thickened over time		
11-Apr-00	mrh/day	4.71	4.73	8.82	9.05	6	1263	71	1340	401	25	6%	0.75	13	New peristaltic purchased/installed. Flow setting #7 (for 2 hr/day).		
1-May-00	mrh/dms	4.62	4.64	8.80	9.05	6	1284	77	1368	22	6	22%	0.31	1	No flow (tubing collapsed). Repaired.		
4-May-00	day/jc	4.62	4.64	8.80	9.05	6	1284	77	1368	0	0	0%		0	No flow (tubing leak). Tank emptied. System turned off.	IWR / BFC	Puretech Systems
8-May-00	mrh/jtf	9.05	9.05	9 05	9.05	0	0	0	0	0	0	0%		0	Original tubing replaced with silicon. System restarted at flow setting #3 (for 2 hr/day).		
8-Jun-00	mrh/day	8.55	8.56	8.98	9.05	3	130	22	154	130	25	16%	0.80	5	Backfill settled around vault. Total depth shallow; measurements estimated. Tubing adjusted.		
10-Jul-00	mrh/dms	8.10	8.11	8.90	9.05	3	244	46	293	114	25	18%	0.77	4	Tubing was worn; adjusted.		
25-Aug-00	day	7.30	7.31	8.80	9.05	3	460	77	540	216	31	12%	0.67	5	Tubing adjusted.		
20-Oct-00	mm	6.25	6.26	8.64	9.05	3	735	127	865	275	49	15%	0.88	6	I ubing wom; adjusted.		
30-Nov-00	mrh	5.75	5.77	8.55	9.05	6	858	154	1019	124	31	20%	0.75	4	Lubing worn; adjusted. Flow rate setting reduced from 3.0 to 1.5; timer not changed.		
7-Eeb-01	mm advbs	5.75	5.77	8.55	9.05	6	858	154	1019	0	0			0	Temporary Fig. let numn installed hut insufficient NPSH due to low creak elevation		
30-Mar-01	mrh	5.75	5.77	8.55	9.05	6	858	154	1019	0	0	0%		0	Peristaltic (geonumo) installed full speed, 600 rom, system OK, NAPL is hi viscocity/settled.		
10-Apr-01	mrh	5 70	5.72	8.51	9.05	6	861	167	1034	3	12	80%	1.12	1.4	3/16" id tubing replaced with 3/8" id tubing. Float switch replaced (plus relay).		
18-May-01	dms/jc	5.65	5.68	8 52	9.05	9	877	164	1050	15	0	0%	0.00	0.4	Tubing worn and soft; adjusted.		
30-Aug-01	mrh/hs	5,53	5.55	8.39	9.05	6	877	204	1087	0	37	100%	0.36	0.4	NAPL appears to be accumulated in well. Timer set to 3 hrs/day. Original peristaltic re-installed.		
3-Oct-01	hs/jc	5.46	5.48	8.35	9.05	6	886	216	1108	9	12	57%	0.36	0.6	NAPL may still be accumulated in well. Timer increased to 4 hrs/day.		-
6-Nov-01	hs/jc	5.30	5.32	8.27	9.05	6	911	241	1158	25	25	50%	0.73	1.5	Additional NAPL purged from well after readings taken. Timer decreased to 3 hrs/day.	-	-
7-Feb-02	hs/jc	3.89	3.91	8.22	9.05	6	1331	256	1593	420	15	4%	0.17	4.7	Adjusted peristattic tubing.		
8-Mar-02	hs/jc	3.81	3.83	8.17	9.05	6	1340	272	1618	9	15	62%	0.53	0.9	Adjusted peristaltic tubing.		
10-Apr-02	mrh	3.43	3.45	7.88	9.05	6	1368	361	1735	28	90	76%	2.71	3.6	Adjusted tubing. Installed piston pump for one day test (then removed). Timer increased to 4 hrs.		
7-May-02	hs/jc	3.15	3.17	7.82	9.05	6	1436	380	1822	68	19	21%	0.69	3.2	l ank full.	Frank's Vacuum	Chemtron
7-May-02		9.05	9.05	9.05	9.05	0	026	0	0 042	026	16		0.22	10.2	Depth's estimated Ruma set at #4.2 broken		
20-500-02 2-Aug-02	mm/ic	3.15	3.17	9.02	9.05	6	1800	- 15	1822	874	6	1%	0.32	232	Tank full mostly water		
6-Sep-02	ic	3.15	3.17	9.00	9.05	6	1800	15	1822	0	0	0%	0.10	0.0	Tank Emplied.	Frank's Vacuum	Clean Harbors, MD
6-Sep-02	,-	9.05	9.05	9.05	9.05	0	0	0	0								
8-Oct-02	mrh/jc	8.98	8.98	8.98	9.05	0	0	22	22	0	22	100%	0.68	0.7	Pump removed for repair		
18-Nov-02	cd	8.98	8.98	8.96	9.05	0	0	22	22	0	0	0%		0.0	Pump reinstalled		
4-Feb-03	mrh/jc	4.32	4.32	8.95	9.05	0	1430	31	1460	1430	9	1%	0.12	18.4	Tank again full of mostly water (timer was left on manual?). Tank emptied.	Frank's Vacuum	Clean Harbors, MD
4-Feb-03		9.05	9.05	9.05	9.05	0	0	0	0								
12-Mar-03	jc	9.00	9.00	9.00	9.05	0	0	15	15	0	15	100%	0.43	0.4	Pump running fast, so removed for evaluation/repair.		
10-Apr-03	mrh/jc	9.00	9.00	9.00	9.05	0	0	15	15	0	0	0%		0.0	Pump reinstalled: runs fast/variable with no load, runs OK with flow load. Timer set to 30 min/day, speed 8.		
23-Jul-03	mrh/jc	8.78	8.78	8.78	9.05	0	0	83	83	0	68	100%	0.65	0.7	Additional system checks/adjustments made by J Clark on 5/5, 5/20, 6/12, and 6/24.		
23-Apr-04	mrh	8.05	8.06	8 55	9.05	3	151	154	309	151	74	33%	0.27	0.8	Additional system checks/adjustments made by NEG on 8/01, 8/06, 9/05, 9/08, 9/11, 9/17, 9/25, 10/30, 11/18.		
24-NOV-04	Ji,jC mbijojijoh	7.31	7.32	8.54	9.05		3//	157	53/	225	3	1%	0.01	1.1	O/w Interface probe not acting precisely, actual DNAPL volume probably greater.		
27_Oct_05	mitujo ji sh	6.96	6.97	8 20	9.05	3	380	262	645	0	- 34 	3270 100%	0.23	0.3	New OWI probe but readings inconsistent with previous readings. System checks by NEG 5/11, 6/24, 7/28, 8/25, 10/06		
22-Mar-06	mini, ju mini, ju	6.78	6.79	8.02	9.05	3	380	318	701	0	56	100%	0.38	0.4	Additional system checks by NFG 10/26/05, 12/14/05, 1/6/06, 2/24/06.		
24-Oct-06	mrh, ic	4.90	4.91	7.38	9.05	3	763	516	1281	383	198	34%	0.91	2.7	Depth to NAPL reading is approximate. Additional system checks by NFG 5/11, 6/29, 7/26, 9/07.		
2-Mar-07	jc, cb	3.36	3.37	7.15	9.05	3	1167	587	1757	404	71	15%	0.55	3.7	Pump turned off 3/02/07 because tank near full. Readings taken 4/25/07. Depth to DNAPL reading is approximate.		
23-Jul-07	jc	3.36	3.37	7.15	9.05	3	1167	587	1757	0	0	0%	0.00	0.0	Tank pumped out.	Frank's Vacuum	Chemtron
23-Jul-07		9.05	9.05	9.05	9.05	0	0	0	0						Timer set from 1 pm to 2pm. Tubing advanced.		
29-Oct-07	dms, jc	8.55	8.56	9.01	9.05	3	139	12	154	139	15	10%	0.16	1.6	Depth to NAPL reading is approximate. Additional system check conducted on 8/02/2007.		
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Scajaquada Creek DNAPL System Monitoring Log

NORTHERN SYSTEM

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Date	Initials	Manhole rim to Bi top of LNAPL (ft)	Manhole rim to top of Water (ft) (estimated)	Manhole rim to G top of DNAPL (ft)	Manhole rim to bottom of Tank (ft)	Calculatio (Jagl) (Dal)	Mater (gal) Water (gal)	ank content (lagl) JAAPL	Total (gal)	Vater Increase (gal)	APL Increase (gal) and	NAPL %	ata NAPL (gpd)	Total Flow (gpd)	Operator's Notes	Transporter	Di
28-Nov-01	mrth/cd	8.89	8 89	8.89	8.89	0	0		0	<u>></u>	2 0	0%	0.00	0.0	Develop well with hand operated diaphrapm pump. Measurements are approximate		⊢
7-Eeb-02	hs/ic	8.62	8.62	8.85	8.89	0	71	12	83	71	12	15%	0.00	1.2	Pump well by hand		⊢
8-Mar-02	hs/ic	8.61	8.61	8 85	8.89	0	74	12	86	3	0	0%	0.00	0.1	Pump well by hand.		⊢
10-Apr-02	mrh	8.59	8.59	8.84	8.89	0	77	15	93	3	3	50%	0.09	0.2	Pump well by hand.		\vdash
7-May-02	hs/jc	8,51	8.51	8.83	8.89	0	99	19	117	22	3	12%	0.11	0.9	Hand pump not working well.		
25-Jun-02	cđ	8.51	8.51	8.83	8.89	0	99	19	117	0	0	0%	0.00	0.0	Hand pump not working. Discarded.		
2-Aug-02	mrh/jc	8.51	8.51	8.83	8.89	0	99	19	117	0	0	0%	0.00	0.0	Begin peristaltic startup. Setting #6.5, 2hr 15 min per day		
8-Oct-02	mrh/jc	7.43	7.44	8.55	8.89	3	343	105	451	244	90	27%	1.34	5.0	Additional system checks/adjustments made by J Clark on 8/15, 8/21, 8/27, 9/09, and 9/12.		
4-Feb-03	mrh/jc	7.36	7.37	8.52	8.89	3	355	114	472	12	9	43%	0.08	0.2	Numbers approximate. Surface of contents frozen. Turn on heat.		
10-Apr-03	mrh/jc	7.28	7.29	8.50	8.89	3	374	120	497	19	6	25%	0.10	0.4	Pumping mostly water, changed timer to 30 min/week.		
23-Jul-03	mrh	7.05	7.06	8.49	8.89	3	442	124	568	68	3	4%	0.03	0.7	Additional system checks/adjustments made by J Clark on 5/5, 5/20, 6/12, and 6/24.		
23-Apr-04	mrb	6.90	6.91	8.42	8.89	3	466	145	614	25	22	47%	0.08	0.2	Additional system checks/adjustments made by NFG on 8/01, 8/06, 9/05, 9/08, 9/11, 9/17, 9/25, 10/30, 11/18.		
24-Nov-04	ji, jc	6.66	6.67	8.41	8.89	3	537	148	689	71	3	4%	0.01	0.3	O/W interface probe not working accurately, depth of DNAPL is estimated.		
19-Apr-05	mh,jc,jl,sh	6.45	6.46	8.39	8.89	3	596	154	753	59	6	10%	0.04	0.4	Additional system checks/adjustments made by J Clark on 11/24, 1/20/2005, 3/7, 3/11, 4/12, 4/18.		
26-Oct-05	mrh, jc	6.33	6.34	8.30	8.89	3	605	182	790	9	28	75%	0.15	0.2	New OWI probe, but readings inconsistent with previous readings. System checks by NFG 5/11, 6/24, 7/28, 8/25, 10/06.		
22-Mar-06	mrh, jc	6.20	6.21	8.23	8.89	3	624	204	831	19	22	54%	0.15	0.3	Additional system checks by NFG 10/26/05, 12/14/05, 1/6/06, 2/24/06.		
24-Oct-06	mrh, jc	5.20	5.21	7.89	8.89	3	828	309	1139	204	105	34%	0.49	1.4	Depth to NAPL reading is approximate. Additional system checks by NFG 5/11, 6/29, 7/26, 9/07.		
25-Apr-07	mrh, jc	4.90	4.91	7.80	8.89	3	892	337	1232	65	28	30%	0.15	0.5	Depth to NAPL reading is approximate. Additional system checks by NFG 10/31/2006, 11/16/2006, 3/02/2007.		
14-May-07	jc	4.90	4.91	7.80	8.89	3	892	337	1232	0	0	0%	0.00	0.0	System off due to power failure on 5/12/2007. Power was still off during system checks 5/18/2007, 5/29/2007, and 5/31/2007		
7-Jun-07	jc	4.88	4.89	7.79	8.89	3	895	340	1238	3	3	44%	0.11	0.3	Electrical Power restored to North System on 6/01/2007. System check conducted on 6/07/2007.		
29-Oct-07	dms, jc	4.68	4.69	7.70	8.89	3	929	367	1300	37	31	45%	0.17	0.4	Depth to NAPL reading is approximate. Additional system check conducted on 8/02/2007.		
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