

APPENDIX F

MANUAL GROUNDWATER LEVEL MEASUREMENT LOGS

**FINAL REPORT
GROUNDWATER INVESTIGATION
RAMSDELL QUARRY LANDFILL
RAVENNA ARMY AMMUNITION PLANT**

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO: 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT. METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
RQLmw - 001	09/07/98	1402	PID	616	000 ppm	28.69	gn
RQLmw - 002	↓	1355	↓	↓	↓	25.10	↓
003		1334				21.03	
004		1331				32.79	
005		1324				23.06	
006		1351				34.94	
007		1346				8.08	
008		1342				8.15	
009		1338				6.99	
010		1322				26.64	
011		1326				23.16	
STAFF GAUGE		9/7/98				1359	

RECORDED BY: Amel C. W. L. 9/7/98
(Signature and Date)

QA CHECKED BY: [Signature] 09/07/98
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill CW Investigation

DELIVERY ORDER NO: U08

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
RQLMW-009	9/18/98	1715	PID -	14722 ²⁰ 616	Ø	8.92	ØW
009		1726			Ø	7.98	
007		1733				8.67	
001		1736				29.17	
006		1739				35.54	
004		1741				33.34	
002		1744				25.58 28.58 ²⁰	
003		1747				21.44	
011		1749				23.65	
005		1750				23.50	
010		1752				27.24	
STAFF GAUGE	↓	1754	NA	NA	NA	1.25 FT AGS	↓

RECORDED BY: George J. White 9/18/98
(Signature and Date)

QA CHECKED BY: [Signature] 9/16/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME Ramsdall Quarry Landfill GW Investigation

DELIVERY ORDER NO 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT. METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
R01MW-001	10/24/98	0735	NA	NA	NA	30.24	JW
002		0745	↓	↓	↓	26.51	↓
003		0742				22.22	
004		0740				34.33	
005		0752				24.38	
006		0738				36.52	
007		0757				9.49	
008		0759				9.49	
009		0800				8.51	
010		0754				28.21	
011		0749				24.40	
STAFF GAUGE		0805					

RECORDED BY: [Signature] 10/26/98
 (Signature and Date)

QA CHECKED BY: [Signature] 10/27/98
 (Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation **DELIVERY ORDER NO. UUS**

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
RQLmw-010	11/13/98	1338	NK	NK	NK	28.47	JW
-005		1343				24.59	
-011		1347				24.57	
-003		1350				22.34	
-009		1353				8.74	
-002		1357				29.71	
-004		1359				34.63	
-008		1402				9.78	
-006		1406				36.85	
-001		1410				30.50	
-007		1414				4.82	
-SG		EST 1420				0.025	

RECORDED BY: James J. White 11/13/98
(Signature and Date)

QA CHECKED BY: Matthew Root 11/30/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO. 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT. METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft from measure point)	INITIALS
RQLmw-010	12/11/98	1147	NA	NA	NA	29.07	RL
-005	↓	1153	↓	↓	↓	25.12	↓
-011		1155				25.07	
-003		1200				22.82	
-002		1204				27.31	
-009		1206				9.75	
-008		1211				10.54	
-004		1216				35.29	
-006		1219				37.52	
-007		1224				10.37	
-SG		1227				dry - 0.00	
-001		1233				31.09	

RECORDED BY: [Signature] 12/11/98
(Signature and Date)

QA CHECKED BY: [Signature] 06/07/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO: 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
KQLmw -010	1/22/99	0936 27.8	NA	NA	NA	27.87	aw
-005		0939				24.00	
-011		0942				24.09	
-003		0944				21.86	
-002		0948				26.71	
-009		0951				6.39	
-008		0953				8.17	
-004		0956				34.75	
-006		0959				37.40	
-007		1002				8.37	
-001		1006				30.51	
SG -	_____	1010	under ca.	6" of snow	_____	_____	_____

RECORDED BY: George Wilson 1/22/99
(Signature and Date)

QA CHECKED BY: Matthew Root 01/27/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT. METHOD (PID, FID, CEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
RQLMW -001	2/12/99	1552	NA	NA	NA	29.31	JW
-002	↓	1608	↓	↓	↓	25.34	↓
-003		1605				19.12	
-004		1547				33.44	
-005		1600				22.63	
-006		1543				36.35	
-007		1550				6.69	
-008		1540				6.66	
-009		1537				5.20	
-010		1558				26.42	
-011		1602				22.73	
STAFF Gauge		↓				1549	

RECORDED BY: [Signature] 2/12/99
(Signature and Date)

QA CHECKED BY: [Signature] 02/10/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation **DELIVERY ORDER NO:** 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT I.D. NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
Ramsdell - 010	03/12/99	1210	NA	NA	NA	25.93	jm
-005		1214				22.11	
-011		1217				22.02	
-003		1219				18.00	
-002		1223				24.70	
-009		1226				5.55	
-008		1229				6.85	
-004		1234				32.97	
-006		1238				35.75	
-007		1244				6.91	
-001		1249				28.79	
STAFF Gauge		1255				3.00	

RECORDED BY: James A. White
(Signature and Date)

QA CHECKED BY: [Signature] 06/07/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO. 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT. METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft from measure point)	INITIALS
RQ Lmn-010	4/10/99	0822	NA	NA	NA	26.23	TW
-005		0836				22.33	
-011		0845				* 22.45	
-003		0848				18.73	
-002		0851				31.07 25.07 28.07 28.07	
-009		0858				5.36	
-008		0904				6.63	
-004		0908				33.38	
-006		0914				36.02	
-007		0924				6.81	
-001		0933				29.02	
STAFF Gauge		2.75 _{pm} 0930				2.75	

RECORDED BY: [Signature] 4/10/99
(Signature and Date)

QA CHECKED BY: [Signature] 06/07/99
(Signature and Date)

* accidentally took w.l. after pulling transducer

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO: U08

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS					
R01 _{low} -01φ	φ5/21/99	132φ	NA	NA	NA	25.89	JW					
φ5	↓	1325	↓	↓	↓	22.φ2	↓					
φ11		1328				22.φ3						
φφ3		133φ				19.44						
φφ2		1334				24.57 20.57						
φφ9		1338				5.99						
φφ4		1341				32.81						
φφ6		1344				35.4φ						
φφ8		135φ				7.33						
φφ7		1353				7.35						
φφ1		1357				28.43						
Staff Gauge		↓				14φ3		↓	↓	↓	2.8φ	↓

RECORDED BY: *[Signature]* 5/21/99
(Signature and Date)

QA CHECKED BY: *[Signature]* 06/07/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation

DELIVERY ORDER NO. 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft from measure point)	INITIALS
RQLmw006	5.25.99	1643	NA	NA	NA	35.14	KL
RQLmw011	↓	1649	↓	↓	↓	22.05	↓
RQLmw010		1653				25.81	
RQLmw007		1659				7.31	
RQLmw008		1708				7.19	
RQLmw009		1715				5.93	
staff gauge		5.25.99				1730	
RQLmw006	5.27.99	0841	NA			35.47	PUMP IN WELL DATA LOGGER IN
RQLmw011	↓	0845	↓	↓	↓	22.26	
RQLmw010	0848	26.00					
RQLmw-007	0854	7.53					
RQLmw-008	0857	7.46					
RQLmw-009	0859	6.07					
	↓					↓	↓

RECORDED BY: KL Dominick
(Signature and Date)

QA CHECKED BY: [Signature] 05/26/99
(Signature and Date)

107

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry Landfill GW Investigation **DELIVERY ORDER NO.:** 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT METHOD (PID, FID, LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft. from measure point)	INITIALS
RQL _{MW} -010	6/22/99	1615 26.96	NA	NA	NA	26.96	GW
-005		1619				23.20	
-011		1621				23.18	
-003		1623				21.00	
-002		1625				25.50	
-009		1627				7.79	
-004		1629				33.52	
-008		1632				8.62	
-006		1635				35.87	
-007		1639				8.55	
-001		1641				29.14	
STAFF GAUGE	✓	1647	↓	✓	↓	1.42	↓

RECORDED BY: James W. [Signature] 6/22/99
(Signature and Date)

QA CHECKED BY: [Signature] 6/23/99
(Signature and Date)

GROUNDWATER LEVEL LOGSHEET

PROJECT NAME: Ramsdell Quarry/Landfill GW Investigation

DELIVERY ORDER NO: 003

NOTE: ALL WATER LEVELS MEASURED FROM TOP OF INNER CASING, TO THE NEAREST 0.01FT.

WELL ID NUMBER	DATE (mm/dd/yy)	TIME (hh/mm)	VAPOR MONT. METHOD (PID,FID,LEL)	INSTRUMENT ID NO.	INITIAL READING	DEPTH TO WATER (ft from measure point)	INITIALS					
RQ1- 010	07/15/99	1610	NA	NA	NA	28.17	JW					
φ11		1620				24.18						
φ06		1630				36.51						
φ09		1650				9.53						
φ08		1655				9.72						
φ07		1702				9.60						
φφ1		1715				30.00						
φφ4		1719				34.34						
φφ2		1721				26.36						
φφ3		1723				21.91						
φφ5		1726				24.26						
STAFF GAUGE		∇				1705		∇	∇	∇	Dry	∇

RECORDED BY: Joseph J. Wilson 7/15/99
(Signature and Date)

QA CHECKED BY: Michael Hull 8-31-99
(Signature and Date)

21