



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 299

OHM REMEDIATION SERVICES CORP.
NORCROSS, GEORGIA

DUNN FIELD
GROUNDWATER INTERIM
REMEDIAL ACTION

DEFENSE DEPOT MEMPHIS, TN

Contract No. DACA45-96-0014, D.O. No. 7

OHM Project No. 20022

PROJECT STATUS REPORT
FOR
U.S. Army Corps of Engineers
Tennessee Area Office

March 19, 1998

1:30 PM

PROJECT SAFETY PERFORMANCE

63 days worked without an OSHA recordable (zero incidents through 3/18/98)

63 days worked without a lost time accident (zero accidents through 3/18/98)

63 days worked without a near miss (zero near misses through 3/18/98)

SCHEDULE STATUS

PROJECT SCHEDULE MILESTONES (see attached schedule updated through 3/7/98):

1) EM-31/61 Investigations & Reports -	18Dec97 AS	04Feb98 AF
2) Mobilization -	05Jan98 AS	05Jan98 AF
3) Construct Temporary Facilities -	06Jan98 AS	12Jan98 AF
4) Soil Borings/Analytical/Report -	13Jan98 AS	09Feb98 AF
5) Initial Installation of 7 Recovery Wells -	19Jan98 AS	23Feb98 AF
6) Re-install RW-5 (RW-5A)-	17Mar98 AS	24Mar98 SF
7) Install Underground Pipe & Conduit -	18Feb98 AS	27Mar98 SF
8) Install Aboveground Mechanical & Elec. -	27Mar98 SS	14May98 SF
9) Functional & Performance Testing -	15May98 SS	28May98 SF
10) 2 Week Facility Operation -	25Apr98 SS	09Jun98 SF
11) Oper. and Maint. (not in contract) -	10Jun98 SS	

Note: AS = Actual Start; AF = Actual Finish; SS = Scheduled Start; SF = Scheduled Finish

MAJOR ACTIVITIES WORKED SINCE LAST MEETING (through 3/18/98):

- 1) 51% (1100 out of 2160 lineal feet) of underground HDPE pipe installed as of 3/17/98.
- 2) 6 out of 7 recovery wells installed, developed as of 3/18/98.
- 3) 6 out of 7 recovery well capacity tests completed.

- 4) Replacement RW-5 currently being installed. Expect to complete capacity test on Sunday 3/22/98.
- 5) Preparation of sub-grade for control building has started.

ACTIVITIES SCHEDULED FOR NEXT MONTH (through 4/19/98):

- 1) Complete installation, development and capacity testing of RW-5 replacement (RW-5A).
- 2) Complete installation of underground piping and conduit including piping to city sanitary tie-in at fence.
- 3) Pressure test underground HDPE piping.
- 4) Complete transportation and disposal (T&D) of excavated soil and drill cuttings from RW-5.
- 5) Form and pour concrete slabs for control building, recovery wells, main electrical distribution panel and metering station.
- 6) Install pre-cast control building.
- 7) Install recovery well pumps.
- 8) Start installation of aboveground piping at recovery wells.
- 9) Start installation of aboveground electrical at recovery wells.

SUBMITTALS AND QUALITY CONTROL

OUTSTANDING SUBMITTALS

- 1) Electrical materials rejected - Anticipate resubmission for information only (FIO) on 3/20/98.
- 2) Instrumentation and controls rejected - Anticipate resubmission for information only (FIO) on 3/25/98.
- 3) Reinforced concrete (FIO) - in USACE review.

QUALITY CONTROL

- 1) RW-5 is currently being replaced with RW-5A.

OTHER TOPICS

- 1) Status of design for connection to city sanitary system.
- 2) Status of operations and maintenance contract.
- 3) Status of USACE review of contract modification proposal #1.
- 4) Status of USACE review of contract modification proposal #2.
- 5) Status of USACE review of contract modification proposal #3.
- 6) Interim holding facility power and fencing.
- 7) Proposal submitted 3/17/98 for soil removal at housing units.
- 8) Expected payment date for pay request #002 submitted 3/17/98.
- 9) Partnering Session, RAB Presentation and Public Information Session costs.
- 10) Should the 2 temporary access roads remain for future use or be removed and seeded?

Activity ID	Description	Orig. Dur	Rev. Dur	Q	E	S	P	Target Start	Target Finish	Early Start	Early Finish	Tot. Fil	1997	1998	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
100	Estimate/Proposal Preparation	57	0	0	0	0	0	10JUL97	23SEP97	10JUL97	23SEP97	100	100															
110	Initial Public Relations	3	0	0	0	0	0	23AUG97	27AUG97	23AUG97	27AUG97	100	100															
500	Prepare SUBMITTANCE	5	0	0	0	0	0	05OCT97	14OCT97	05OCT97	14OCT97	100	100															
1000	Preconstruction Safety Conference	1	0	0	0	0	0	15OCT97	15OCT97	15OCT97	15OCT97	100	100															
A035	NOTICE TO PROCEED	0	0	0	0	0	0	31OCT97	31OCT97	31OCT97	31OCT97	100	100															
M5001	Start Project	0	0	0	0	0	0	31OCT97	31OCT97	31OCT97	31OCT97	100	100															
Submittals & Notifications																												
1012	Prepare Preliminary Project Schedule	9	0	0	0	0	0	31OCT97	10NOV97	31OCT97	10NOV97	100	100															
1015	Prepare Environmental Protection Plan	14	0	0	0	0	0	31OCT97	13NOV97	31OCT97	13NOV97	100	100															
1055	Prepare Sampling and Analysis Plan (SAP)	14	0	0	0	0	0	31OCT97	13NOV97	31OCT97	13NOV97	100	100															
1010	Prepare Submittal Register	19	0	0	0	0	0	31OCT97	21NOV97	31OCT97	21NOV97	100	100															
1016	Prepare Contractor Quality Control (CQC) Plan	19	0	0	0	0	0	31OCT97	21NOV97	31OCT97	21NOV97	100	100															
1026	Grading submittals	27	0	0	0	0	0	31OCT97	04DEC97	31OCT97	04DEC97	100	100															
1030	Excavation, trenching & backfilling submittals	33	0	0	0	0	0	31OCT97	11DEC97	31OCT97	11DEC97	100	100															
1042	Under ground pipe, valve & fitting submittals	24	0	0	0	0	0	31OCT97	01DEC97	31OCT97	01DEC97	100	100															
1040	Above ground pipe, valve & fitting submittals	27	0	0	0	0	0	31OCT97	04DEC97	31OCT97	04DEC97	100	100															
1055	Obtain permit for recovery wells	24	0	0	0	0	0	31OCT97	01DEC97	31OCT97	01DEC97	100	100															
1035	Process Instrumentation & Control submittals	39	0	0	0	0	0	31OCT97	18DEC97	31OCT97	18DEC97	100	100															
1030	Prehabilitated building submittals	33	0	0	0	0	0	31OCT97	11DEC97	31OCT97	11DEC97	100	100															
1044	Electrical submittals (Changed to FIO)	33	0	0	0	0	0	31OCT97	11DEC97	31OCT97	11DEC97	100	100															
1046	Heat tracing submittals (Changed to FIO)	27	0	0	0	0	0	31OCT97	04DEC97	31OCT97	04DEC97	100	100															
1034	Reinforced concrete submittals (Changed to FIO)	33	0	0	0	0	0	31OCT97	11DEC97	31OCT97	11DEC97	100	100															

Activity ID	Description	Orig Dur	Item Dur	U	C	S	P	Target Start	Target Finish	Early Start	Early Finish	Tot Est	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
MS000	Submit Preliminary Project Schedule	0	0	0	0	0	0	10NOV97	10NOV97	10NOV97	10NOV97	100					1012 MS000	1092								
1014	Prepare Initial Project Schedule	0	0	0	0	0	0	11NOV97	20NOV97	11NOV97	20NOV97	100					1017 MS004									
1032	Water well submittals	12	0	0	0	0	0	14NOV97	01DEC97	14NOV97	10JAN98	100					1038 MS001	1031	1084							
MS003	Submit Environmental Protection Plan	0	0	0	0	0	0	13NOV97	13NOV97	13NOV97	13NOV97	100					1018 MS005	1022								
MS009	Submit Sampling and Analysis Plan (SAP)	0	0	0	0	0	0	18NOV97	18NOV97	18NOV97	18NOV97	100					1008 MS009	1004								
MS004	Submit Initial Project Schedule	0	0	0	0	0	0	20NOV97	20NOV97	20NOV97	23NOV97	100					1014 MS004	1094								
1142	Submit request for clearance (UEW, UXO, utilities)	1	0	0	0	0	0	20NOV97	20NOV97	20NOV97	24NOV97	100					1026 MS042	1068								
1156	Prepare & submit Work Zone drawings	2	0	0	0	0	0	23NOV97	24NOV97	01DEC97	15DEC97	100					1026 MS042	1068								
MS002	Submit Submittal Register (Hard Copy & Disk)	0	0	0	0	0	0	21NOV97	21NOV97	21NOV97	08DEC97	100					1010 MS002	1090								
MS007	Submit Contractor Quality Control (CQC) Plan	0	0	0	0	0	0	21NOV97	21NOV97	21NOV97	15DEC97	100					1010 MS007	1020, 1024								
1150	Provide 2 wk notices to power down overhead lines	0	0	0	0	0	0	31DEC97	31DEC97	18JAN98	18JAN98	100					1060 MS0150	1170								
1102	Provide 30 day notices to USGS/DEC for wells	24	0	0	0	0	0	23NOV97	25DEC97	13JAN98	17JAN98	100					1100, 1100, 1110, 1112, 1114, 1116, 1122, 1130, 1134									
1148	Assemble O & M Manual	12	12	0	0	0	0	20DEC97	08JAN98	01APR98	17APR98	370														
1136	As build drawings	15	15	0	0	0	0	14JAN98	01JUN98	18JUN98	07JUL98	0														
Govt Review & Approval																										
1002	Govt review/approve SS/HA/APP/ERP	37	0	0	0	0	0	18OCT97	21NOV97	18OCT97	24NOV97	100					1000 MS007	1119	1054							
1082	Govt review/approve Preliminary Project Sited	23	0	0	0	0	0	11NOV97	10DEC97	11NOV97	24NOV97	100					MS003 MS007	1048								
1004	Govt review/approve Sampling & Analysis Plan	19	0	0	0	0	0	17NOV97	11DEC97	17NOV97	07JAN98	100					MS009 MS041	1111	1054							
1022	Govt review/approve Environmental Protection Plan	23	0	0	0	0	0	17NOV97	16DEC97	17NOV97	14JAN98	100					MS005 MS042	1111	1110, 1040, 1052							
1094	Govt review/approve Initial Project Schedule	24	0	0	0	0	0	21NOV97	22DEC97	21NOV97	22JAN98	100					MS004 MS043	1111	1110, 1040							
1006	Govt clearances for UG web (UEW, UXO, utilities)	12	0	0	0	0	0	21NOV97	08DEC97	24NOV97	24NOV97	100					1147, 1150 MS043	1054, 1084, 1171, 1172								
1000	Govt review/approve Submittal Register	25	0	0	0	0	0	22NOV97	22DEC97	08DEC97	30DEC97	100					MS002 MS044	1090	1048							

299

6

Activity ID	Description	Orig Dur	Rem Dur	ES	EF	TS	TF	Early Start	Early Finish	Total Fl	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1074	Gov't review/approve Const. Quality Control Plan	16	0	USACE	23NOV87	13DEC87	13DEC87	15DEC87	07JAN88	100														
1098	Gov't review/approve Grading Submittals (FIC)	34	0	USACE	05DEC87	05JAN88	05JAN88	31DEC87	31DEC87	100														
1100	Gov't review/approve Grading Submittals (FIC)	23	0	USACE	17DEC87	13JAN88	13JAN88	31DEC87	31DEC87	100														
1112	Gov't review/approve UIC post-wiring submittals (FIC)	24	0	USACE	07DEC87	30DEC87	30DEC87	07JAN88	07JAN88	100														
1110	Gov't review/approve UIC post-wiring submittals (FIC)	24	0	USACE	05DEC87	05JAN88	05JAN88	05JAN88	05JAN88	100														
1108	Gov't review/approve Process I&C submittals (FIC)	22	14	USACE	18DEC87	19JAN88	19JAN88	28JAN88	25MAR88	50														
1106	Gov't review/approve prebid bldg submittals (FIC)	23	0	USACE	12DEC87	13JAN88	13JAN88	31JAN88	04FEB88	100														
1114	Gov't review/approve electrical submittals (FIC)	23	14	USACE	12DEC87	13JAN88	13JAN88	18FEB88	25MAR88	50														
1116	Gov't review/approve UIC submittals (FIC)	24	14	USACE	05DEC87	05JAN88	05JAN88	18FEB88	25MAR88	50														
1104	Gov't review/approve concrete submittals (FIC)	23	5	USACE	12DEC87	13JAN88	13JAN88	18MAR88	18MAR88	0														
1102	Fabrication & Delivery of I&C piping & fittings (CS, CPVC, SS)	32	0	CIIM	06JAN88	18FEB88	18FEB88	09JAN88	20JAN88	100														
1178	Fab & deliver I&C piping & fittings	16	0	CIIM	31DEC87	26JAN88	26JAN88	16JAN88	19JAN88	100														
1176	Fabrication of I&C panels and equipment	43	22	ELECT	20JAN88	21MAR88	21MAR88	19JAN88	07APR88	49														
1172	Fab & deliver Control Building	23	17	CIIM	19JAN88	18FEB88	18FEB88	05FEB88	30MAR88	50														
1118	Fab & deliver rebar for Control Bldg foundation	5	4	CIVIL	13JAN88	19JAN88	19JAN88	17MAR88	21MAR88	0														
1120	Fab & deliver rebar for meter bypass & wet pads	8	4	CIVIL	13JAN88	23JAN88	23JAN88	17MAR88	21MAR88	0														
1026	Field Operation & Installation	0	0	SURV	12NOV87	21NOV87	21NOV87	13NOV87	20NOV87	100														
1171	Survey for well pipeline, control bldg, etc.	10	0	CIIM																				
1177	Evaluate archive search report	2	0	CIIM																				
1172	EM 3108 Investigation of Area D	2	0	CIIM																				
1174	Report on EM 3108 Investigation (Access D)	12	0	CIIM																				
1046	Mobilization	1	0	CIIM																				

299 7

Activity ID	Description	Qty Dur	Rem Dur	R S P	Target Start	Target Finish	Early Start	Early Finish	Total Flt	1117	1111	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1154	Administration & Support - Field	52	78	0	0	0	0	0	15d	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1050	Erect Temporary Facilities	5	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1070	CCC Coordination Meeting	1	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1054	Perform soil borings and sampling for analysis	3	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1060	Lab analysis of 20 samples incl disposal profile	12	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1057	Install erosion control measures	2	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1064	Install & develop recovery wells RW-3 thru RW-9	19	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1176	EM-3105 Investigation of Areas A & C	2	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1178	Report on EM-3105 Investigation (Areas A & C)	11	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1180	Excavate test pits in Area B	2	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1181	Prepare/change order for glass vial sampling	13	2	0	0	0	0	0	60d	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
1186	Prepare CO for level B trenching & re-mobile	14	2	0	0	0	0	0	0	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
1187	Prepare CO for PCE contaminated soil	13	2	0	0	0	0	0	25d	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
1170	Dev'l complete power down of overhead lines	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1182	Sampling & analysis of glass vials	13	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1070	Install UFG piping	10	10	0	0	0	0	0	7d	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1062	Excavation, backfilling & grouting for pipeline	18	11	0	0	0	0	0	0	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
1080	Install UFG electrical conduit	12	10	0	0	0	0	0	7d	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1148	Locate and T&D of bonded materials/cuttings	8	10	0	0	0	0	0	55d	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
1166	Sample/analysis of dewatering down test well	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1164	Perform step draw-down test for RW-3 thru RW-9	13	5	0	0	0	0	0	12d	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1190	Trench/pipe/etc. test PCE & glass vials area	7	4	0	0	0	0	0	25d	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50

Activity ID	Description	Orig Dur	Rem Dur	ES	EF	LS	LF	Activity ID	Description	Orig Dur	Rem Dur	ES	EF	LS	LF
1164	Obtain TDEC approval for disposal of glass vials	10	5	01M	04MAY95	24MAY95	01APR95	1162	Discharge equipment down test water to POTW	6	16	01M	06MAY95	27MAY95	1160
1204	Crush glass vials, loadout and T&D of soil	1	3	01M	13MAY95	16MAY95	18MAY95	1202		1	1	01M	11MAY95	12MAY95	1184
1192	Sampling & analysis of PCE soil for disposal	6	3	ALAB	13MAY95	18MAY95	18MAY95	1190		6	3	ALAB	11MAY95	12MAY95	1182
1186	Install & develop replacement well for RW-5	3	3	01M	17MAY95	18MAY95	18MAY95	1184		3	3	01M	15MAY95	16MAY95	1182
1194	Concrete pads for wells RW-8 & RW-9	10	10	01M	17MAY95	30MAY95	30MAY95	1190		10	10	01M	15MAY95	16MAY95	1182
1200	Obtain TDEC approval for disposal of PCE soil	10	10	01M	18MAY95	03JUN95	03JUN95	1192		10	10	01M	16MAY95	17MAY95	1184
1206	Strip draw-down test replacement well for RW-5	4	4	01M	21MAY95	25MAY95	25MAY95	1202		4	4	01M	19MAY95	20MAY95	1186
1072	Concrete pads for RW-8 & metering station	8	8	01M	23MAY95	30MAY95	30MAY95	1078		8	8	01M	21MAY95	22MAY95	1194
1074	Concrete foundation for Control Building	8	8	01M	23MAY95	30MAY95	30MAY95	1080		8	8	01M	21MAY95	22MAY95	1196
1056	Initial Process I&C Coordination Meeting	1	1	01M	03JUN95	03JUN95	03JUN95	1060		1	1	01M	01JUN95	02JUN95	1204
1166	Install main power service	3	3	ELECT	25MAY95	25MAY95	25MAY95	1170		3	3	ELECT	23MAY95	24MAY95	1206
1168	Install A/G pump/gauging at wells RW-8 & RW-9	6	6	01M	01JUN95	06JUN95	06JUN95	1172		6	6	01M	01JUN95	02JUN95	1208
1076	Install A/G pump/gauging at wells & by-pass	12	12	01M	26FEB95	06MAY95	17APR95	1082		12	12	01M	24FEB95	04MAY95	1210
1124	Concrete cure time for Control Bldg foundation	15	15	01M	26JAN95	10FEB95	17APR95	1126		15	15	01M	24JAN95	09FEB95	1212
1202	Loadout and T&D of PCE soil	1	1	01M	04APR95	04APR95	04APR95	1204		1	1	01M	02APR95	03APR95	1214
1198	A/G electric Control Tracer @ wells RW-8 & RW-9	6	3	ELECT	10APR95	10APR95	10APR95	1200		6	3	ELECT	08APR95	09APR95	1216
1086	Second Process I&C Coordination Meeting	1	1	01M	31DEC97	31DEC97	31DEC97	1090		1	1	01M	29DEC97	29DEC97	1218
1078	Oil load and set up Control Building	6	6	01M	20FEB95	26FEB95	18APR95	1084		6	6	01M	18FEB95	24FEB95	1220
1082	A/G electric Control Tracer @ wellby-pass station	21	21	ELECT	10MAY95	06JUN95	14MAY95	1088		21	21	ELECT	08MAY95	04JUN95	1222
1084	Initial Control Building electrical and I&C	18	18	ELECT	10MAY95	06JUN95	12MAY95	1090		18	18	ELECT	08MAY95	04JUN95	1224
1088	Initial Process I&C Coordination Meeting	1	1	01M	03FEB95	03FEB95	03FEB95	1092		1	1	01M	01FEB95	02FEB95	1226

Activity ID	Description	Org	Req	Res	Est	Target Start	Target Finish	Early Start	Early Finish	Total Eff	SV	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1138	Initial piping installation	12	12	12	12	26MAR98	05APR98	05MAR98	10MAY98	18d	0														
1096	Fourth Process ISC Coordination Meeting					06MAR98	05MAR98	11MAY98	11MAY98	3d	0														
1140	Miscellaneous painting	3	3	3	3	06APR98	11APR98	13MAY98	10MAY98	10d	0														
MS011	480v. 3-Phase electrical service energized	0	0	0	0	05APR98	05APR98		14MAY98	0	0														
1144	Petal site restoration--Seeding/Grazing	6	6	6	6	10APR98	17APR98	15MAY98	21MAY98	15d	0														
1136	Demobilization	3	3	3	3	06MAY98	13MAY98	10JUN98	15JUN98	0	0														
Start-up & testing																									
1132	Functional testing & flushing	5	5	5	5	10APR98	16APR98	15MAY98	20MAY98	0	0														
1133	Performance testing	6	6	6	6	11APR98	24APR98	21MAY98	28MAY98	0	0														
1134	Facility operation	10	10	10	10	25APR98	07MAY98	26MAY98	09JUN98	0	0														
General Administrative & Support																									
1132	Administration & Support--Office	157	81	81	81	31OCT97	01JUN98	31OCT97	07JUL98	0	53														
1150	City of Memphis approve discharge to POTW	7	0	0	0	14MAR98	23MAR98	07MAR98	07MAR98	0	100														
MS010	Permit & tie in to POTW complete	0	0	0	0	06APR98	06APR98		14MAY98	0	0														
MS012	End Project	0	0	0	0	01JUN98	01JUN98		07JUL98	0	0														

299 10

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE