
APPENDIX C

List of Documentation



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

September 29, 2000

Mr. James Dye
City of San Bernardino Municipal Water Department
195 N. "D" Street
San Bernardino, CA 92401

Dear James,

This letter serves as an official notice of the start of the Long Term Remedial Action (LTRA) for the Newmark Operable Unit as of October 1st, 2000. During the Performance Evaluation period, which lasted between October 1998 and September 2000, the treatment system has been performing and achieving capture as designed (see Attachment A: Summary of Performance from October 1998 - April 1999, from the first 6-month Operation Report by URS). Preliminary data after April 1999 showed that this performance has been maintained. All operational data from April 1999 to date will be included in the URS Final Project Performance Technical Memorandum and Report.

During this Performance Evaluation period, several major problems were found at the treatment plants: i) inadequate telemetry system ii) air exhaust from the GAC vessels, and iii) bad wiring cables for the filter monitoring system.

The air exhaust problem was rectified after a series of tests and evaluation of alternative solutions. URS installed automatic back pressure valves to keep the dissolved gasses in solution in the water during treatment. New wiring cables were installed at URS cost. Resulting from this latest retrofitting, a few minor problems still exist at the treatment plants, as identified in the attached memo by Michael Lowe (Attachment B: Outstanding Problems at the Newmark OU). These problems do not affect the performance of the system, although they need to be addressed for long term operation efficiency.

These problems should be addressed as follows (more detailed responses to these problems are provided in the Attachment B):

- 1) SCADA: SBMWD should replace the telemetry using the existing RA funding, as approved by the US EPA.
- 2) Filter Monitoring System: several instruments have been identified to be not working properly. A walkthrough scheduled for October 2000 will determine any remaining issues and how to address them.

3) Pressure Sustaining Transducers: these are expected to be installed by the end of October.
4) Aquifer level transducers: any necessary work to be performed will be done by SBMWD, using the existing RA funding.

5) Loss of flow capacity at some wells: depending on the cause of this problem (increasing head pressure or water drawn down), SBMWD will perform any necessary work to ensure capture of the contaminated plume. URS is currently evaluating the effect of the loss of flow capacity on capture, and will recommend a course of action in the near future. To prevent future instrumentation failure, EPA will discuss with URSG and SBMWD to recommend that SBMWD use alternative instruments better suited to current operating conditions. SBMWD should also explore other sources of carbon with better adsorption property.

A funding action was completed in September 2000. As part of this funding, EPA has committed \$906,000 to fund any remaining RA expenses for the Newmark OU, and \$906,000 for one year of LTRA to start in October 1, 2000. All operations prior to September 30, 2000 and any expenses incurred in the future related to capital retrofitting of the treatment system (as identified above) should still be charged to the RA funding category. Any remaining RA funding after the retrofit will be used for future LTRA. All other routine Operation and Maintenance work after October 1st, 2000 should be charged to the LTRA fund.

A number of reports are still outstanding from both URS and SBMWD. The list of the outstanding URS activities (listed by Task number in the RAC contract) is summarized in Attachment C. SBMWD's list of outstanding reports is included in Attachment D.

If you have any questions or comments, please let me know.

Sincerely Yours,

/s/

Kim-Chi T. Hoang, Ph.D.
RPM

Attachments (A-D)

ec: Loren Henning
John Kemmerer
Cheryl Filart
Dwayne Deutscher
Dennis Bane
Bill Bryden
Bernie Kersey
David Katzki

Attachment A

Newmark and Muscoy Operation data:

PLANT	MAXIMUM DESIGN RATE (gpm)	ORIGINAL OPERATING RATE (gpm)	ACTUAL AVERAGE RATE (gpm) Oct 98 - Apr 99	* FUTURE DESIGN RATE (gpm)
Waterman	6,000	5,200	4,827	5,100
17th St.	2,250	2,000	1,880	2,000
Newmark	5,250	3,900	2,790	3,900**
19th St	12,000			10,600
Total (gpm)	25,500	11,100 (Newmark only)	9,497 (Newmark only)	21,600 (both Newmark/Muscoy)
Total (acre-ft/yr)			15,319 acre-ft/yr	34,985 acre-ft/yr

* Based on first six months of operation

** Future rate may be reduce as a result of current capture analyses

CONTAMINATE REMOVAL (first 6 months from Oct 1998 - Apr 99)

PLANT	DESIGN CONCENT. (ug/l)		ACTUAL CONCENT. (ug/l)	
	PCE	TCE	PCE	TCE
Waterman	35	7	1	0.9
17th St.	35	7	3	1
Newmark	35	7	6	1

After treatment, all samples are at the non-detect level.

Attachment B

CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT INTEROFFICE MEMORANDUM

TO: Bill Bryden

FROM: Michael Lowe

SUBJECT: EPA Deficiencies as of September 25, 2000

DATE: 09/17/2004

COPIES: James Dye, Bernard Kersey, Michael Garland, Rick Stilts, File

During the meeting with EPA September 21, 2000 Kim Hoang, USEPA requested that we notify her of the work still required to finish the Newmark OU prior to October 1, 2000. She requested this list be simple and outline the areas that will still require funding to complete. Below are the areas that have not been completed to the satisfactory of the Department;

- **SCADA** (Supervisory Control and Data Acquisition) ATSI (Advanced Telemetry Systems International) Labor and support to complete \$25,000.)
Parts from stock: 2 ea. 91100 Standard RTU @ \$4,600 ea.
4 ea. Level Transmitter Duratran @ \$662.00 ea.
2 ea. Antenna @ \$17.80 ea.
Misc. Department labor; \$4,000.00

Approx total; \$40,883.60

RESPONSE: The SBMWD's existing (at the time the Newmark system was added) SCADA system did not have the capacity to handle the additional data input load from the Newmark and eventually the Muscoy systems. The EPA authorized the SBMWD to make necessary improvements to their SCADA system last year. Funding for this task should be from the RA funding category.

- **Filter Monitoring System** (to include metering, alarming instruments, differentials pressure switches, Programmable Logic Controller and possible wiring.)

17th St Treatment Plant

1. Carbon Filtering Monitoring Panel (Not Operating) Make; Allen Bradley, Cost; unknown
2. Differential Pressure switches (unable to check because of status of Carbon Filtering Monitoring Panel (Not Operating) Make; unknown, Cost; unknown.

Waterman Treatment Plant

1. Differential Pressure switches; Total 16, not operating 1, needs calibrating 7. Make; unknown, Cost; unknown
2. Carbon vessel influent meters all working at units; 3 not reading at Carbon Filtering Monitoring Panel (wiring or program problem)

Newmark Treatment Plant

1. Differential Pressure switches; Total 14, not operating 0, needs calibrating 7. Make; unknown, Cost; unknown.
3. Carbon vessel influent meters; 1 not working, 2 not reading at Carbon Filtering Monitoring Panel (wiring or program problem). Make; Water Specialties Cost; unknown

RESPONSE: EPA first heard of instrumentation problems in the spring of 2000, almost 2 years after the completion of the construction, and they were associated to the installation of the incorrect wire during initial construction and its subsequent failure after getting wet. After installation of the new correct wire, during the wire continuity check run to verify the correct installation of the re-wiring, URS' representative noted numerous instrumentation problems and provided a summary and analysis of the inspection results at the regular design meeting August 23, 2000. At this time, the cause of these instrumentation problems is not clear to EPA. An inspection is planned for October 2000 with representatives of the SBMWD and URS to investigate each instrument failure and recommend a solution.

• **Pressure Sustaining Transducers**

17th St Treatment Plant

1. The pressure sustaining transducer belonging to new pressure valves have not been installed and wired back to the control panel. Make, model, unknown they were never installed.)

Waterman Treatment Plant

1. The pressure sustaining transducer belonging to new pressure valves have not been installed and wired back to the control panel. Make, model, unknown they were never installed.)

Newmark Treatment Plant

1. The pressure sustaining transducer belonging to new pressure valves have not been installed and wired back to the control panel. Make, model, unknown they were never

installed)

RESPONSE: The plans for the back pressure valve retrofit project as designed by URS and approved by the SBMWD specified high pressure shut off switches to protect the GAC vessels from over pressurization. These switches are installed and operable. Subsequently, the SBMWD requested that we install pressure transducers so the pressure could be remotely monitored and controlled. With EPA approval we made this change. However, there was a several month lead time on the transducers. They have been received and will be installed the week of 9/25/00.

- **Aquifer Level Transducers (at all well sites)**
 1. 5 Transducers are currently in for repair. We have had all transducers repaired at least once and about 50% repaired twice. 33% of them are currently in for repair. Make; KPSI 4/20ma, approximate cost \$800.00 ea.
 2. Possible cause is URS keeps removing them to sample aquifer and jostling them. Transducers are sensitive instruments and should not be handled this often. Please direct URS to install sampling pump to remedy this situation.
 3. If sampling pumps are installed and I recommend it so that we get accurate data then someone will need to address that issue, I have no idea what they cost but it will require 12 pumps for 2" Piezometers set at depths required by URS. The Department should not be liable for the transducers failing when they are being removed and re-installed by URS and the only way to remedy this is with pumps.
 4. Replace current transducers with a better more stable transducer. Cost; approximately 13 @ \$1,500 ea. Total; \$19,500 Labor to replace; \$6,500.

RESPONSES:

- The EPA has not experienced any transducer failures in the 28 transducers installed as part of the LTMP monitoring program.
- URS does not believe that they have miss-handled the transducers. There is a requirement that the extraction well pizometers be sampled over the life of the project. One solution is to have City Water Department personal, remove the transducers for sampling access. Another possible solution is to install dedicated sampling pumps. Please note that these wells were designed and installed by the City Water Department and it has been suggested by EPA in the past that dedicated pumps be installed. In other words this problem was identified in the past.
- Installation of dedicated sample pumps is advised and that if requested URSG will be happy to discuss sample pump requirements with the Agency. Please note that there are maintenance requirements for bladder pumps and that this is not set and forget equipment.

- **North Plant Wells** (since the added pressure sustaining valves the do not pump as designed; loss of flow capacity.)
 1. EPA #6, Design; 1000 GPM @ 245 TDH. Currently 669 GPM @ 291 TDH. If it requires another bowl cost \$5,000 to \$7,000. Motor and Starter is currently sized for this.
 2. EPA #7, Design; 1300 GPM @ 235 TDH. Currently 750 GPM @ 272 TDH. If it requires another bowl cost \$5,000 to \$7,000. If it requires New Bowls it could cost as much as \$15,000.00. The motor was changed out with Newmark 3 when it was repaired in anticipation of this and is sized at 150 HP and should meet any additional HP requirement. The started make have to be upsized to accommodate the additional load at approximately \$1,500.00.

RESPONSE:

- URSG is currently evaluating the performance of the extraction well network as part of the Performance Report. A review of the July 2000 Excel spreadsheet data supplied by the City Water Department indicate that EPA 6 and EPA 7 are pumping at flow rates of 878 GPM and 1125 GPM respectively. URSG are not sure why there has been a decrease in flow rate sense July but we have observed an overall decrease in water levels over the past year(s).
 - It is URSG's understanding that the back pressure at the North plant was manually increased on September 7, 1999 and that the valves recently installed do the same job automatically. As such we do not think that the recent installation of the back pressure valves can explain such a high loss in flow.
- **EPA Well 7**
PROBLEM: The aquifer did not perform as designed. (Included in North Plant Wells above after Dennis Banes redesigns.)

RESPONSE: URS believes what SBMWD intended to say in this comment was that the aquifer did not respond as modeled. URS is not sure what is meant by the redesign comment.

SUMMARY

In the future, a more formal communication strategy needs to be implemented, so that EPA and URSG can be alerted immediately of any problems or concerns that arise as opposed to wait until they become serious issues. The flow rates from EPA 6 and 7 are a good example of this. The instant the flow rate dropped off we should have been notified so that we could evaluate its affect in a timely matter. We will be assessing this situation once pertinent data can be obtained.

Michael H. Lowe
 Operations Superintendent

—To Meet Our Customers Needs by Providing High-Quality Service in Water Supply, Water Reclamation, and Geothermal Heating
 in the Most Profesional and Cost-Effective Manner Possible—

Attachment C

URSG TASKS/DELIVERABLES REQUIRED
TO COMPLETE
NEWMARK RA WORK ASSIGNMENT (WA# 015-RARA-09J5)

TASK 2: COMMUNITY RELATIONS

- Web site development

TASK 3: SITE SPECIFIC PLANS

- Coordinate with local emergency response teams

TASK 7: CLEANUP VALIDATION

- Finalize Six-Month Report

TASK 8: RA IMPLEMENTATION

- Complete back pressure valve installation (Install pressure transducers)

TASK 9: PROJECT PERFORMANCE

- Submit draft O&M Manuals
- Finalize O&M Manuals
- Maintain monitoring wells (On going thru end of WA or transfer to Source OU)
- Prepare draft and final Project Performance Tech Memo and Report

TASK 10: PROJECT COMPLETION AND CLOSEOUT

- Complete As-builts
- Prepare draft and final RA Report

TASK 11: WORK ASSIGNMENT CLOSEOUT

- Perform closeout activities

Attachment D

SBMWD OUTSTANDING REPORTS ON NEWMARK OU

PROJECT PERFORMANCE

- Quarterly reports
- SBMWD component of O&M Manuals
- SBMWD component of final RA report



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

April 2, 2002

Mr. James Dye
City of San Bernardino Municipal Water Department
195 N. "D" Street
San Bernardino, CA 92401

Dear James:

This letter serves as an official notice of the end of the remedy activities to the construction of the Newmark Operable Unit of the Newmark Superfund Site. During the Performance Evaluation period of the Newmark Operable Unit, which lasted between October 1998 and September 2000, several major problems were found at the treatment plants: i) inadequate telemetry system ii) air exhaust from the GAC vessels, and iii) bad wiring cables for the filter monitoring system.

URS Corp. addressed the air exhaust from the GAC vessels in FY2000. In a letter dated September 2000 listing these problems in detail, SBMWD was charged to address the remaining problems, and was funded \$906,000 in FY2000 to cover for the cost of these remaining RA activities. SBMWD was also funded \$906,000 in FY2001 for one year of LTRA at the Newmark Operable Unit.

As of March 31 2002, SBMWD expects to have \$417,826 remaining from the RA FY2000 funding, and \$68,701 from the FY2001 LTRA funding. This total remaining fund of \$486,527 is to be transferred to FY2002 for LTRA funding. SBMWD will also be funded an additional \$750,000 (of the \$906,000 requested for FY2002 annual LTRA) as a final funding action for the third application of the cooperative agreement #V999400-01 (Amendment #9).

In addition to all regular reports required by the cooperative agreement, SBMWD is required to submit a report summarizing all remedy activities to address the problems listed in the letter of September 2000, including a detailed description of parts and labor costs to address these problems.

If you have any questions or comments, please let me know.

Sincerely Yours,

/s/

Kim-Chi T. Hoang, Ph.D.
RPM

cc: Loren Henning
John Kemmerer
Cheryl Filart
Bill Bryden
Bernie Kersey

Sacramento Document Control Log

Newmark OU RA
Project Number 41F2501500

Report by Document Date

Report Date: 9/19/2001

<i>File Num.</i>	<i>Doc. Num.</i>	<i>Doc Date</i>	<i>Office of Origin</i>	<i>Complete Title</i>
.14.b	0023	00/00/00	EPA	Property Acquisition for the Muscoy Operable Unit Remedial Action
.13.08.e	0006	00/00/00	URSGWCFS	Aerial Photos
06.c	0058	01/00/00	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: JAN 00
06.c	0059	02/00/00	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: FEB 00
06.c	0060	03/00/00	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: MAR 00
06.c	0061	04/00/00	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: APR 00
06.c	0062	05/00/00	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: MAY 00
.04.e1	0042	05/30/00	City of San Bernardino Municipal Water	Unreimbursed Expenses Associated with URSG Activities for the Newmark OU Construction
06.c	0063	06/00/00	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: JUN 00
.01.b14	0043	06/05/00	CH2M Hill	Newmark OU - Newmark Groundwater Contamination Superfund Site - Remedial Action Work Plan WAF Rev. 05 Part I, Section B.2
06.c	0065	07/00/00	CITY OF SAN BERNARDINO	EPA 17TH PLANT PRODUCTION FOR MONTH: JULY 00
.13.04.a	0022	11/05/97	EPA	Well and Plant Permit Application - Policy Memo 97-005 Policy Guidance for Direct Domestic Use of extremely impaired sources, Appendix D - Compliance with Policy Memo 97-005, Appendix D - Compliance with DOHS Policy Memo 97-005, Exhibit 1 - Technical Memorandum, Exhibit 2 - Permit Amendment, Exhibit 3 - Field Sample Plan, Exhibit 4 - Technical Memorandum, Exhibit 5 - Final Fourth Quarter 1996 Report, Exhibit 6 - Draft Performance Monitoring Program Field Sampling Plan, Appendix B, Specification 1263, Specification 1275, Analytical Data - Newmark #3, Analytical Data - Waterman Well, Analytical Data - 16th Street Well, EPA Well #1, EPA Well #2, EPA Well #3, EPA Well #4, EPA Well #5, EPA Well #6, EPA Well #7

.04.b	0032	03/26/98	City of San Bernardino	Seismic Design of Carbon Vessels for the Newmark Groundwater Contamination Superfund Project - North Plant
.04.a	0025	07/23/98	City of San Bernardino	Receipt of Additional Permit Amendment Requirements and Copies of EPA Well Nos.1 through 5 Surface Drainage Plans
.04.b	0030	07/28/98	City of San Bernardino	Bid Confirmation
.04.d	0031	08/18/98	City of San Bernardino	Newmark Groundwater Contamination Superfund Project - Remedial Action Start-up Planning Meeting (EPN 95-052)
.09.a2	0005	09/25/98	Data Chem Lab	Preliminary Report on Samples
.04.f	0026	10/05/98	City of San Bernardino	Cooperative Agreement for Newmark Groundwater Contamination Superfund Remedial Action: Quarterly Report, Second Quarter Fiscal Year 1997-1998, Third Quarter Fiscal Year 1997/1998, Third Quarter Fiscal Year 1998/1999
.04.e	0027	10/08/98	City of San Bernardino	Recorded Notice of Completion, Specification No.1292, 1360 Linear Feet Pipeline - North Plant
.04.e	0028	10/08/98	City of San Bernardino	Recorded Notice of Completion, Specification No.1281, Phase II South Plant Raw Water Transmission Pipeline
06.c	0051	11/00/98	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: NOV 98
.04.f	0041	11/03/98	URS	Overlapping Issue: Monitoring, Other, Design
.04.d	0033	11/04/98	City of San Bernardino	Moose Lodge Pavement Repair
.10.a2	0029	11/13/98	Northwestern Carbon	Final URS/San Bernardino Punch List
.13.04.c	0034	11/19/98	City of San Bernardino	Release of Retention Specification No.1281, Raw Water Transmission Pipeline
.13.04.c	0035	11/19/98	City of San Bernardino	Release of Retention, Specification No. 1292, 1360 Linear Feet Pipeline - North Plant
06.c	0044	12/00/98	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: DEC 98
.01.b4	0037	12/08/98	EPA	Award Fee Performance Event Report - Part 1 Semester - EPA Work Assignment Manager Version
.13.04.c	0036	12/09/98	City of San Bernardino	Project Closeout for the Installation of Pumping Equipment to Beylik Drilling - Newmark Groundwater Contamination Superfund Project, Newmark OU (C.O. 8269, Contract No.1275)
To be Entered	0004	12/22/98	EPA	Review of Organic data
.01.a1	0001	12/23/98	CH2MHill	Task Order No. 4, Revision 0
.13.04.c	0038	12/29/98	City of San Bernardino	Liquidated Damages for the Installation of Pumping Equipment to Beylik Drilling - Newmark Groundwater Contamination

Superfund Project, Newmark OU (C.O.
8269, Contract No.1275)

06.c	0045	01/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: JAN 99
.04.d	0039	01/05/99	City of San Bernardino	Host Site Application for the Superfund Innovative Technology Evaluation Demonstration Program
.13.04.c	0040	01/13/99	City of San Bernardino	Notice of Completion, Specification No.1275 EPA Wells 3,6, & 7
06.c	0046	02/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: FEB 99
.01.d	0002	02/02/99	URSGWCFS	Monthly Status Report - 12/98
.01.c	0015	02/09/99	URSGWCFS	Subcontractor Invoice - Period ending 01/29/99
.01.d	0003	02/22/99	URSGWCFS	Monthly Status Report - 01/99
.01.a1	0016	02/25/99	CH2MHill	Work Assignment Expenditure Limit Summary
.04.c	0012	02/26/99	City of San Bernardino	Letter from City of San Bernardino. Re: Water Quality Monitoring for the Newmark and Source Operable (OU) Units (EPN 95-052, C.O. 8564)
06.c	0052	03/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: MAR 99
.01.b1	0011	03/02/99	EPA	Invoice Justification Email from EPA WAM
.01.c	0013	03/11/99	URSGWCFS	Subcontractor Invoice - Period ending 02/26/99
06.c	0053	04/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: APR 99
.14.b	0024	04/01/99	EPA	Reviewed request for approval of Preliminary Sampling for Offgassing Occurring from Granular Activated Carbon Vessels (Treatment System)
.01.c	0009	04/05/99	URSGWCFS	Team Subcontractor Invoice: 006. Period ending : 3/26/99
.01.d	0014	04/05/99	URSGWCFS	Monthly Status Report - Period: 01/30/99 through 02/26/99
.09.a	0008	04/07/99	URSGWCFS	Performance Evaluation Results
.03.c	0007	04/08/99	URSGWCFS	Performance Evaluation Sample Canister Purchase Order No. SC-99-P0350
.01.d	0010	04/13/99	URSGWCFS	Monthly Status Report. Period: 02/27/99 through 03/26/99
06.c	0047	05/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: MAY 99
.01.a1	0017	05/03/99	CH2MHill	Work Assignment Expenditure Limit Summary
06.c	0048	06/00/99	CITY OF SAN BERNARDINO	EPA 17TH SOUTH PLANT PRODUCTION FOR MONTH: JUNE 99
06.c	0049	07/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: JULY 99

06.c	0050	08/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: AUG 99
06.c	0054	09/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: SEPT 99
.01.b1	0018	09/07/99	URSGWCFS	Letter: Newmark Groundwater Contamination Superfund Site Newmark Source OU Long-Term Monitoring Program Original Low Level Volatile Organic Compounds (LLVOCs) Lab Reports
.01.b1	0019	09/15/99	URSGWCFS	Letter: Newmark Groundwater Contamination Superfund Site-Newmark RA Operable Unit, Butene Results
06.c	0055	10/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: OCT 99
.01.a1	0020	10/11/99	URSGWCFS	Letter: Newmark RA Signed RAC 9 Task Order No. 4, Revision 01
06.c	0056	11/00/99	CITY OF SAN BENARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: NOV 99
06.c	0057	12/00/99	CITY OF SAN BERNARDINO	EPA SOUTH 17TH PLANT PRODUCTION FOR MONTH: DEC 99
.06.d	0021	12/23/99	URSGWCFS	Muscoy RD Operable Unit Review of City of San Bernardino Water Department Specification No. 1320

Report by Document Date (newest first)

Report Date: 9/19/2001

<i>Document Date</i>	<i>Office of Origin</i>	<i>Complete Title</i>	<i>Job Num.</i>	<i>File Num.</i>	<i>Doc. Num.</i>
00/00/00	Allen-Bradley	Subcontractor Deliverables - Allen-Bradley	62470	.06.b	0294
00/00/00	CHJ Inc.	Corresp. Waterman Site	62470	.13.10.a1	0427
00/00/00	Clearwater Environmental, Inc.	Shop Drawing Submittals	62470	.13.06.b	0276
00/00/00	Geocon Environmental	Contstruction Photos	62470	.13.08.e	0424
00/00/00	Hydroxyl Systems	Hydroxyl Systems Capability Summary	62470	.11	0094
00/00/00	JEM Environmental Svcs	Site Specific Health and Safety Plan for Pipeline Installation	62470	.06.b	0093
00/00/00	NWC	Shop Drawing Reviews	62470	.13.06.a	0275
00/00/00	URSG	Feild Notes/Logs	62470	.13.10.a2	0278
00/00/00	URSG	Inspection Reports	62470	.13.08.d	0277
00/00/00	URSG	Newmark South Plant Pipeline, Field Notes	62470	.13.08.a	0428
00/00/00	URSG	Request for Information Log Chart indicating work needing to be completed and response to work being requested.	62470	.13.03.h	0295
00/00/00	URSG	Technical Review Forms - File	62470	.10.a2	0293
00/00/00	URSGWCFS	Job Setup (CFMS)/ Work Authorization - File	62470	.02.a	0289
00/00/00	URSGWCFS	Manhour Summary Reports - File	62470	.02.b1	0291
00/00/00	URSGWCFS	Miscellaneous Information - File	62470	.05.c	0292
00/00/00	URSGWCFS	Periodic Status Reports - File	62470	.01.d	0290
00/00/00	URSGWCFS	Transmittal Form - Newmark N&S treatment Plant	62470	.03.c	0205
00/00/00	Various	Construction Drawings - File	62470	.13.01.b	0429
03/01/92	AWWA	Field Welding of Steel Water Pipe	62470	.13.03.a	0388
10/00/94	Camp Dresser & McKee	Newmark Plume Feasibility Study Water USE Investigation 10/94 - Report	62470	.11.b	0406

07/10/96	SBMWD	Summary of Issues Discussed in the 06/13/96 Meeting on the Newmark Drinking Water Restoration Project	62470	.04.c	0089
08/27/96	EDC Consultants	High Pressure and Drain Line Tables	62470	.13.08.c	0102
09/11/96	EPA	Appointment of WAM	62470	.01.b1	0443
09/17/96	EPA	WAF Revision No. 0 and SOW	62470	.01.a1	0001
10/11/96	SBMWD	Request for Check to Pay Drilling Fees - US EPA Barrier Wells	62470	.04.c	0088
11/15/96	EPA	Appointment of Alternate Work Assignment Manager	62470	.01.a1	0007
11/19/96	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0002
11/20/96	SBMWD	Change Order No. 2 and Notice of Completion Contract No. 1264	62470	.13.11.c1	0104
12/23/96	URSGWCFS	Work Plan Revision No. 0	62470	.07.a1	0003
01/06/97	SBMWD	Construction Order Update	62470	.04.c	0004
01/14/97	SBMWD	Award of Contract - Specification No. 1267 Raw Water Transmission Pipeline for the Newmark Drinking Water Restoration Superfund Project	62470	.13.11.c1	0103
01/22/97	SBMWD	Authorization to Proceed - Contract No. 1267	62470	.04.c1	0221
01/24/97	URSGWCFS	Newmark RA Interim Budget Request	62470	.01.b1	0206
01/28/97	SBMWD	Construction Order Update	62470	.04.c	0087
01/28/97	SBMWD	Newmark Groundwater Contamination Superfund Site Construction Order Update	62470	.04.c1	0005
01/30/97	CHJ Incorporated Incorporated	Field Compaction Test Summary	62470	.13.03.a	0098
02/03/97	SBMWD	Change Order No. 2 to Contract No. 1263	62470	.13.11.c3	0106
02/20/97	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0006
02/26/97	EPA	WAF Revision No. 1	62470	.01.a1	0008
03/18/97	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0009
03/31/97	SBMWD	SMBWD Desired Alternative - 3 new Muscoy wells, new pipeline, use existing 15" main, expand 19th St. pump station and four monitoring wells	62470	.01.b1	0077
04/02/97	SBMWD	Change Order No. 3 to Contract No.	62470	.13.11.c3	0107

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04/02/97	SBMWD	Purchase of Water Department Property Located at 1108 North Arrowhead Avenue	62470	.04.c	0086
05/05/97	URSGWCFS	Work Plan Revision No. 1	62470	.07.a1	0010
05/06/97	URSGWCFS	Work Plan Revision No. 1 Explanation of Changes	62470	.07.a1	0011
05/08/97	URSGWCFS	SF 1411 for Work Plan Revision 1 Dated 05/05/97	62470	.07.a1	0013
05/09/97	URSGWCFS	Draft Field Sample Plan (FSP) Submittal	62470	.07.a3	0012
05/09/97	URSGWCFS	Draft Quality Assurance Project Plan (QAPjP) Submittal	62470	.07.a2	0014
05/20/97	SBMWD	Change Order No. 4 to Contract No. 1263	62470	.13.11.c3	0108
05/23/97	URSGWCFS	Proposed Monitoring Well Location and Property Ownership Information	62470	.01.b1	0015
05/30/97	EPA	WAF Revision No. 2	62470	.01.a1	0016
06/03/97	SBMWD	Effects of USEPA Newmark/Muscoy Operable Unit Superfund Project on the Department's Immediate and Long-Term Domestic Water Supply	62470	.04.c	0085
06/06/97	URSGWCFS	Work Plan Revision No. 2	62470	.07.a1	0017
06/18/97	URSG	Northwestern Carbon Preliminary Submittal (Newmark RD/RA)	62470	.13.03.b	0245
06/19/97	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0018
06/23/97	Northwest Carbon	Water Purification with Activated Carbon Tables	62470	.13.03.b	0099
06/24/97	EPA	WAF Revision No. 3	62470	.01.a1	0019
06/26/97	EPA	Drilling Operations	62470	to be entered	0022
06/26/97	EPA	EPA Drilling Operation	62470	to be entered	0021
06/27/97	URSG	Construction of Pads - Solicitation No. SC-97-F-0276	62470	.13.01.a1	0422
06/30/97	NWC	Process Performance Warranty	62470	.13.06.a	0101
07/01/97	EPA	Award Fee Performance Event Report - 11/01/96 through 4/30/97	62470	.01.e	0210
07/03/97	SBMWD	Newmark OU 24" Water Pipeline Construction/Gas Pipeline Relocation	62470	.13.11.c1	0096

in Marshall Blvd. from Lugo St. to
Leroy St. South to the Waterman Ave.
Plant

07/07/97	URSG	Newmark Carbon Submittal #1	62470	.13.06.a	0423
07/07/97	URSG	NW Carbon Submittal Forms	62470	.13.06.a	0425
07/18/97	URSGWCFS	Letter - Response to Comments on the Field Sample Plan (FSP) dated 07/08/97	62470	.07.a3	0023
07/23/97	URSG	Health and Safety Plan (Appendix C to FSP)	62470	.07.a4	0026
07/23/97	URSGWCFS	Field Sample Plan (FSP)	62470	.07.a3	0024
07/23/97	URSGWCFS	Quality Assurance Project Plan	62470	.07.a2	0025
07/24/97	URSGWCFS	Letter - Well Drilling and Equipment Storage Near Waterman Avenue and Olive Street	62470	.04.d	0028
07/24/97	URSGWCFS	Notification Information for Proposed Monitoring Wells	62470	.01.b1	0027
08/01/97	EPA	Access Letters	62470	.04.a	0031
08/21/97	SBMWD	Change Order No. 5 to Contract No. 1263	62470	.13.11.c3	0105
08/25/97	URSGWCFS	Final List of Stolen Government Furnished Property	62470	.01.b1	0029
08/25/97	URSGWCFS	RI/FS Final List of Stolen Government Furnished Property	62470	.01.b1	0030
08/26/97	URSGWCFS	Letter - Request for Consent to Subcontract - Construction of North and Waterman Plant Pads	62470	.01.b1	0208
09/00/97	Clearwater Environment al, Inc.	Corporate Health and Safety Programs, Plans Policies and Procedures Combined Policies Manual	62470	.07.a	0329
09/02/97	SBMWD	Financial Agreement for Collectable Work In Connection with the Relocation of Gas Pipelines in Marshall Boulevard from Lugo St. to Lugo St. South to the Waterman Avenue Plant to Accomodate the Construction of EPA 24" Water Pipeline, CO 5273	62470	.13.11.c1	0095
09/09/97	Clearwater Environment al, Inc.	RFI #1 Option of fabricating and installing flanged spools.	62470	.13.03.h	0327
09/09/97	URSGWCFS	Request for Calibration Information	62470	.03.c	0032

09/10/97	EPA	E-mail - Agreement with Newmark on 3 remaining Issues - FSP and QAPjP	62470	.01.b1	0284
09/10/97	URSG	Response to Request for Information (RFI) dated September 9, 1997	62470	.13.03.h	0255
09/15/97	Clearwater Environmental, Inc.	Schedule for Newmark OU RA - Submittal of Preliminary Schedule	62470	.13.03.f	0403
09/17/97	Clearwater Environmental, Inc.	RFI #2 Request for clarification on push-on joints types.	62470	.13.03.h	0326
09/23/97	Great Northwest Inc.	RFI #3 Transmittal Re: Newmark Piping	62470	.13.03.h	0324
09/23/97	URSG	North and South Treatment Plants Preconstruction Conference	62470	.13.03.a	0240
09/23/97	URSG	Response to Request for Information (RFI) dated September 17, 1997	62470	.13.03.h	0252
09/24/97	URSG	Response to Request Information dated 09/23/97 Field Lok Gaskets Use	62470	.13.03.h	0325
09/24/97	URSGWCFS	Work Assignment Task 4 Interim Budget	62470	.01.b1	0033
09/25/97	Clearwater Environmental, Inc.	Project Plans for Newmark - transmittal letter only	62470	.13.03.a	0402
09/25/97	URSG	Newmark Pre-construction Conference	62470	.13.03.a	0230
09/29/97	EPA	WAF Revision No. 4	62470	.01.a1	0034
10/08/97	SBMWD	Letter - Newmark Plume and Muscoy Plume Superfund Sites	62470	.04.c	0220
10/08/97	URSG	Final FSP and QAPjP Submittal	62470	.07.a3	0035
10/08/97	URSG	Shop Drawing Schedule	62470	.13.03.b	0243
10/09/97	URSG	North and South Treatment Plants Change Order Request No. 1	62470	.13.03.c	0250
10/14/97	EPA	Consent to Modify a Subcontract for URSG	62470	.01.a1	0036
10/14/97	EPA	WAF Revision No. 5	62470	.01.a1	0037
10/15/97	Clearwater Environmental, Inc.	Clarification of Changes Shown on Revised Plans for Newmark Superfund Site in Accordance with Change Order No. 1 10/09/97	62470	.13.03.c	0323
10/22/97	Clearwater Environment	RFI #5 Clarification of Contract Limits for Newmark Superfund Site	62470	.13.03.h	0322

	al, Inc.				
10/22/97	URSGWCFS	Work Plan Revision No. 3	62470	.07.a1	0038
10/23/97	URSGWCFS	Temporary Road Closure and Encroachment Permit for Groundwater Monitoring Well Construction	62470	.04.a	0039
10/24/97	URSG	North Plant	62470	.13.03.a	0237
10/28/97	URSGWCFS	Letter - Request for Consent to Subcontract - Pressure Transducers and Dataloggers	62470	.01.b1	0209
10/30/97	SBMWD	Road Closure - 4th Ave. between 41st Street and 42nd Street	62470	.04.a	0041
11/03/97	URSG	North and Waterman Plant Construction - Electrical Subcontractor's Submittal	62470	.13.03.a	0233
11/05/97	Clearwater Environmental, Inc.	Grating for Backwash Trench	62470	.13.03.a	0238
11/05/97	Clearwater Environmental, Inc.	RFI #6 Depth and Classification of Aggregate Under Concrete Pads	62470	.13.03.h	0321
11/06/97	SBMWD	Letter - State Well Numbers for San Bernardino Municipal Water Department EPA Water Wells	62470	.04.c	0219
11/12/97	URSGWCFS	Stolen BMF property	62470	.01.b1	0040
11/20/97	Clearwater Environmental, Inc.	Project Review Meeting Agenda	62470	.13.03.g	0239
11/21/97	Clearwater Environmental, Inc.	Pipe Connection Detail	62470	.13.03.a	0241
11/25/97	URSG	Answers to RFI #6	62470	.13.03.h	0235
11/25/97	URSG	Pipe Bedding	62470	.13.03.a	0236
12/02/97	URSG	North and Waterman Plant Construction - Electrical Subcontractor's Submittals	62470	.13.03.a	0231
12/05/97	URSGWCFS	Work Plan Revision No. 3	62470	.07.a1	0043
12/08/97	URSG	Isolation Valves Removal	62470	.13.03.c	0320
12/08/97	URSG	North and South Treatment Plants Response to Various Requests for Information (RFIs) and Requests for Substitutions (RFSs)	62470	.13.03.h	0045

12/10/97	Clearwater Environmental, Inc.	Change Order Request No. 2a	62470	.13.03.d	0249
12/10/97	Clearwater Environmental, Inc.	Change Order Request No. 5a	62470	.13.03.d	0251
12/10/97	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 12/10/97	62470	.13.03.g	0344
12/10/97	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 12/10/97	62470	.13.03.g	0346
12/11/97	Caltrans	Encroachment Permit permit # 08-96-N-MC-0640	62470	.04.a	0409
12/17/97	Clearwater Environmental, Inc.	Change Order Request No. 8	62470	.13.03.d	0256
12/18/97	Clearwater Environmental, Inc.	Change Order Request No. 9	62470	.13.03.d	0254
12/18/97	URSG	Anti-Siphon Loop Foundation	62470	.13.03.b	0242
12/18/97	URSG	RFI #7 Anti-Siphon Loop Foundation Additional DIP thrust collar	62470	.13.03.c	0319
12/18/97	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0046
12/19/97	URSG	Change Order Request No. 7 Revise Yard Piping at North Plant; Revise Backwash Waste Line at Waterman Plant; Pressure Testing of Water and Chlorine Piping	62470	.13.03.c	0044
12/19/97	URSG	Newmark OU, COR 7, Revise Piping at North Plant, Backwash Waste Line, Pressure Testing	62470	.13.03.c	0416
12/22/97	URSG	Draft Performance Monitoring Program Field Sampling Plan and Quality Assurance Project Plan Addendums to the Source Operable Unit Long Term Monitoring Program FSP and QAPP	62470	.07.a3	0047
12/23/97	URSG	North and South Treatment Plants Change Order Request (CORs) Nos. 2a, 5a, 6a, 8 and 9	62470	.13.03.d	0048
12/24/97	Clearwater Environmental, Inc.	North Plant Piping Meters Planned at both the Waterman & N. Plant Sites are installed in steel pipe.	62470	.13.03.a	0401
12/26/97	Clearwater Environment	Transmittal Re: C-3, 9, & 14 Spec. 15150/1.01B	62470	.13.03.h	0314

	al, Inc.				
12/26/97	Clearwater Environment al, Inc.	Transmittal Re: Vessel Dugs Sht 2 of C-3 Please Advise Rainwater and Treated Water Lateral Locations are Inconsistent	62470	.13.03.h	0313
12/29/97	Clearwater Environment al, Inc.	Transmittal Re: C-12, 3, 6, & 9 Can the Anti-Siphon loop be composed of steel pipe in the vertical straight run sections from the first elbow in the last elbow out of the loop?	62470	.13.03.h	0315
12/30/97	Clearwater Environment al, Inc.	Minutes of Newmark Superfund Bi-weekly Meeting 12/30/97	62470	.13.03.g	0345
12/30/97	SBMWD	Quarterly Report for 4th Quarter 96-97 Fiscal Year with the Financial Status Report	62470	.04.c	0049
01/05/98	Clearwater Environment al, Inc.	Site Laterals Per our teleconference - change in position of the laterals at the Waterman Site.	62470	.13.03.a	0400
01/12/98	John Headlee	Progress Report for December 1997 Meeting	62470	.04.d	0090
01/13/98	Caltrans DOT	Encroachment Permit	62470	.04.a	0213
01/14/98	Clearwater Environment al, Inc.	Minutes of Newmark Superfund Bi-weekly Meeting 01/14/9	62470	.13.03.g	0341
01/14/98	Clearwater Environment al, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 01/14/98	62470	.13.03.g	0343
01/15/98	Clearwater Environment al, Inc.	Transmittal Re: Waterman Reservoir Sketch RFI No. 15	62470	.13.03.h	0312
01/16/98	SBMWD	Preconstruction Meeting Agenda	62470	.04.e	0092
01/16/98	URSG	North and South Treatment Plants Change Order Request Nos. 2a, 5a, 6a, and 8	62470	.13.03.c	0050
01/20/98	Clearwater Environment al, Inc.	Request by Transmittal on Advise that the Schedule Strength for Subject Force Main so Purchase can be Made.	62470	.13.03.h	0311
01/20/98	Clearwater Environment al, Inc.	Transmittal Re: Supply Lane North Plant PVC 1" Chlorine Supply Line Installed in 24"x 8" DI Cross- Will Violate Integrity of Fitting	62470	.13.03.h	0309
01/21/98	Clearwater Environment	Tramsittal Regarding Information Sent	62470	.13.03.h	0298

	al, Inc.	to Doy Brothers on Paint			
01/22/98	Clearwater Environment al, Inc.	Transmittal Re: Epoxy Grout According to Spec., the Epoxy Grout should be ASTM C881 Type I, Grade 3	62470	.13.03.h	0308
01/23/98	Clearwater Environment al, Inc.	Facsimile - Approval for the Request to Use C900, CL150 PVC for the Force Man Piping	62470	.13.03.h	0301
01/23/98	Clearwater Environment al, Inc.	Transmittal Re: Problems with previous evaluations submitted on previous sketches.	62470	.13.03.a	0399
01/27/98	CSB - Parks, Recreation and	Mt. View Water Line Project - Landscape Issues	62470	.04.e	0091
01/28/98	Clearwater Environment al, Inc.	Minutes of Newmark Superfund Project Bi-Weekly Project 01/28/98	62470	.13.03.g	0340
01/28/98	URSG	Newmark Schedule Sept 97 - March 98	62470	.13.03.f	0100
01/29/98	Beylik Drilling, Inc.	Fax: Letter Regarding Price at EPA No. 3	62470	.04.c	0084
02/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0352
02/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0366
02/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0367
02/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0368
02/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0369
02/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0371
02/03/98	URSG	Final minutes of 101/28/97 Meeting	62470	.13.03.g	0347
02/03/98	URSG	Response to Request to Relocated Proposed Cable Trays	62470	.13.03.h	0304
02/03/98	URSGWCFS	Newmark RA Construction Cost Status	62470	.01.b1	0207
02/04/98	Clearwater Environment al, Inc.	Explanation for Schedule Change and the use of Epoxy/Anchor Bolt System	62470	.13.03.h	0302
02/04/98	Clearwater Environment al, Inc.	Transmittal - Per Telephone Conversation: Will Install the Conduit in the Concrete & Tie it Directly to the Rebar.	62470	.13.03.h	0299

02/04/98	SBMWD	Mountain View Avenue Pipeline Construction - Landscape Issues	62470	.04.c	0083
02/04/98	Transportation/Flood Control	Zone 2, Western Avenue Channel, Devil Creek Channel - Permit No. P-295048	62470	.04.c	0082
02/09/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-Weekly Meeting 02/09/98	62470	.13.03.g	0339
02/09/98	EPA	Temporary Access to Property	62470	.04.a	0020
02/09/98	URSG	Bid Document-Solicitation #SC-98-F-0103 South Pipeline Bridge Crossing	62470	.13.01.a1	0418
02/10/98	URSG	Response to request for additions to the 01/28/98 minutes	62470	.13.03.g	0342
02/11/98	SBMWD	Payment Request for Flood control Permit Deposit - North Plant Pipeline	62470	.13.04.a	0272
02/11/98	URSG	Effluent Line Tie-in to the Waterman Reservoir	62470	.13.01.a4	0051
02/12/98	SBMWD	Request for Extension of the Period of Performance for the Newmark Groundwater Contamination Superfund Cooperative Agreement, Newmark and Muscoy Operable Units	62470	.04.c	0218
02/12/98	URSG	Fax to F. Dubois Regarding Asphalt Pavement Edges	62470	.13.03.h	0300
02/17/98	Beylik Drilling, Inc.	Letter re: Status of Project for EPA Wells at Newmark and Contract Extension	62460	.04.c	0081
02/17/98	Clearwater Environmental, Inc.	Change Order Request No. 7	62470	.13.03.d	0253
02/18/98	Clearwater Environmental, Inc.	Change Order Request No. 9a	62470	.13.03.d	0257
02/18/98	Clearwater Environmental, Inc.	Change Order Request No. 9a	62470	.13.03.d	0258
02/18/98	Clearwater Environmental, Inc.	Request DPT and Flow Meter Information for the Carbon Filter Units	62470	.13.03.h	0303
02/18/98	Clearwater Environmental, Inc.	Change Order Request No. 11	62470	.13.03.d	0261
02/23/98	SBMWD	Submittals of Transducers for EPA	62470	.13.06.c	0058
02/24/98	WAVE	Newmark/ Shop DWG Review	62470	.06.d	0379

Clearwater Environmental 02/20/98

02/25/98	Clearwater Environmental, Inc.	Change Order Request No. 1	62470	.13.03.d	0247
02/25/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 02/25/98	62470	.13.03.g	0338
03/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0363
03/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0365
03/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0370
03/02/98	EPA	WAF Revision No. 6	62470	.01.a1	0053
03/03/98	Clearwater Environmental, Inc.	RFI #8 Change Orders 1, 7, 9, and 11	62470	.13.03.h	0318
03/05/98	URSG	Concrete Test Cylinder Data	62470	.13.10.a1	0364
03/10/98	Clearwater Environmental, Inc.	North Plant Conduit Trench	62470	.13.03.a	0398
03/11/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 03/11/98	62470	.13.03.g	0337
03/12/98	URSG	Draft Performance Monitoring Program FSP and QAPjP Addendums - Additional copy requested by EPA	62470	.07.a3	0054
03/12/98	URSG	Memorandum Re: Per Request One Copy of each of the ACI Code Sections 301 and 308 To: Ruth Adams, Clearwater	62470	.13.03.h	0306
03/17/98	SBMWD	Authorization to Proceed	62470	.04.c1	0059
03/17/98	URSGWCFS	Newmark Groundwater Construction Superfund Site Newmark OU RA Extraction System Monitoring Well Installation Technical Memorandum Draft	62470	.06.a1	0055
03/19/98	Clearwater Environmental, Inc.	Waterman Site, Class II Base Material	62470	.13.03.a	0228
03/24/98	URSGWCFS	Additional Interim Budget - Task 4	62470	.01.b1	0056
03/25/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 03/25/98	62470	.13.03.g	0336

03/25/98	URSG	Waterman Site, Class II Base Material	62470	.13.03.a	0397
03/26/98	SBMWD	Newmark Groundwater Contamination Superfund Project - North Plant - Preconstruction Meeting with EL-CO Contractors, Inc. for Specification No 1292 - CO 5272	62470	.01.b2	0078
03/26/98	SBMWD	Pre-Construction Meeting with EL-CO Contractors Inc. for Specification No. 1292 - C.O. 5272	62470	.13.04.b	0273
03/26/98	SBMWD	Seismic Design of Carbon Vessels for the Newmark Groundwater Contamination Superfund Project - North Plant	62470	.13.04.b	0060
03/27/98	URSG	Preconstruction Meeting - Mountain View Avenue Pipeline Bridge Crossing - 04/02/98	62470	.13.03.a	0396
03/27/98	URSGWCFS	Notice to Proceed	62470	.03.a	0395
03/27/98	William P. Young Construction,	Job Information/Preliminary Notice Information	62470	.13.03.a	0097
03/30/98	URSG	Number of Days Extension Approved for Changes Order Numbers 2a, 5a, 6a, and 8	62470	.13.03.a	0057
03/31/98	URSG	Comments from the 03/11/98 and 03/25/98 Construction Progress Meeting	62470	.13.03.h	0305
03/31/98	URSG	Waterman Paving and Grading - modifications from the original design	62470	.13.03.b	0376
04/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0351
04/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0358
04/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0361
04/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0362
04/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.08.a	0375
04/02/98	NWC	Seismic Zone 4 Calculations for GAC Vessels	62470	.13.06.a	0274
04/06/98	Colich & Sons	Misc. Submittals, Manhole Fittings/Adapters, Nuts, Bolts & Gaskets	62470	.13.06.c	0411
04/06/98	URSG	Draft Performance Monitoring Program QAPjP Addendums to the	62470	.07.a3	0061

Source OU Long-term Monitoring
QAPjP - additional copy requested by
EPA

04/07/98	Clearwater Environmental, Inc.	Transmittal of Tabulation of Rainy Days Through 04/02/98	62470	.13.03.h	0310
04/07/98	EDC Consultants	Newmark Monitoring Wells	62470	to be entered	0062
04/08/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 04/08/98	62470	.13.03.g	0335
04/08/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meetings 04/08/98	62470	.13.03.a	0393
04/08/98	Clearwater Environmental, Inc.	Misc. Paperwork Regarding Waterman West Pad Concrete Plan (RFI No. 30)	62470	.13.03.h	0297
04/08/98	SBMWD	Construction Completion and Operations Startup	62470	.04.c	0217
04/08/98	SBMWD	Letter - Additional Construction Required for Implementation of North Plant Cleanup	62470	.04.c	0215
04/08/98	URSG	Minutes of Newmark Superfund Project Bi-Weekly Meeting - April 8, 1998	62470	.13.03.g	0394
04/10/98	URSG	Preconstruction Meeting Minutes - Mtn. View Avenue Bridge Penetration	62470	.13.03.g	0392
04/14/98	SBMWD	Construction Completion and Startup Operation for the Newmark Groundwater Contamination Superfund Project (EPN 95-052) Newmark Operable Unit	62470	.04.c	0080
04/14/98	SBMWD	Memo on Meetings in April and May 1998	62470	.04.c	0216
04/15/98	Clearwater Environmental, Inc.	Doty Brothers has Recommended Using Tyler Ductile Iron Adapter Flanges for Quick Boltup of the Backwash Supply Line.	62470	.13.03.h	0307
04/15/98	Clearwater Environmental, Inc.	Newmark-Northplant RFI-19 Backwash Supply Tie-In	62470	.13.03.h	0412
04/15/98	Clearwater Environmental, Inc.	Response to Comments on Change Orders 1, 7 and 9	62470	.13.03.d	0246
04/16/98	EPA	E-Mail Memorandum - Concerns on the 12/22/97 Draft PMP FSP and QAPjP	62470	.01.b1	0279

04/20/98	Clearwater Environmental, Inc.	Per request - submitted a change order to cover cost of installation - requesting approval of this change.	62470	.13.03.h	0296
04/20/98	URSG	Construction Traffic - Caltrans Overcrossing No. OC 54-76R/L	62470	.13.03.a	0391
04/21/98	Clearwater Environmental, Inc.	Change Order Request No. 10	62470	.13.03.d	0260
04/21/98	Clearwater Environmental, Inc.	Change Order Request No. 12	62470	.13.03.d	0262
04/21/98	EDC Consultants	16 Inch Diameter Ductile Iron Waterline Grade Shet	62470	.13.08.c	0380
04/22/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-Weekly Meeting 04/22/98	62470	.13.03.g	0334
04/22/98	Colich & Sons	Unmarked Caltrans Conduit Discovery	62470	.13.03.a	0390
04/22/98	URSG	Letter of Transmittal - Pre-Construction Forms	62470	.13.04.a	0271
04/22/98	URSG	Response to Comments for the Draft Performance Monitoring Program FSP and QAPP Addendums to the Source OU Long-term Monitoring and Sampling Program FsP and QAPP	62470	.07.a3	0063
04/23/98	Clearwater Environmental, Inc.	Pour Plan for North Pad Sump (Waterman)	62470	.13.03.a	0227
04/24/98	SBMWD	Construction Completion and Startup Operation for the Newmark Groundwater Contamination Superfund Project	62470	.04.c	0079
04/27/98	URSG	CQAP 04/27/98	62470	.14.b1	0064
04/29/98	Ralph Hernandez Co.	NW Carbon Submittal Waterman Wall Defect	62470	.13.06.a	0426
05/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0350
05/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0357
05/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62370	.13.10.a1	0359
15/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0360
05/01/98	URSG	Overcrossing Site Safety Plan dated	62470	.14.b1	0065

05/01/98

05/04/98	SBMWD	NPDES Information for 19th GAC	62470	.04.a	0212
05/04/98	William P. Young Construction	Progress Payments #1 Mt. View Pipeline job #367	62470	.13.01.A5	0410
05/05/98	SBMWD	Remedial Action Startup Planning Meeting	62470	.04.c	0214
05/06/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 05/06/98	62470	.13.03.g	0333
05/07/98	SBMWD	SBMWD Punch List Items	62470	.04.a	0211
05/08/98	Clearwater Environmental, Inc.	Change Order Request No. 13	62470	.13.03.d	0263
05/11/98	Eastland Construction	Concrete Mix Design for the Western Ave. and Kendall Rd. Project for the San Bernardino County Flood Control Job No. 1292	62470	.13.06.e	0377
05/11/98	URSG	Revised Newmark Schedule - 09/97 - 03/98	62470	.13.03.f	0348
05/18/98	William P Young Construction	Cost for Steel Casing	62470	.13.03.a	0389
05/20/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-Weekly Meeting 05/20/98	62470	.13.03.g	0332
05/20/98	Holliday Inc.	Report of Laboratory Testing 01/09/94	62470	.13.08.a	0374
05/23/98	Clearwater Environmental, Inc.	Change Order Request No. 15	62470	.13.03.d	0264
05/23/98	Clearwater Environmental, Inc.	Change Order Request No. 16	62470	.13.03.d	0266
05/23/98	Clearwater Environmental, Inc	Change Order Request No. 20	62470	.13.03.d	4292
05/27/98	Clearwater Environmental, Inc.	North Plant and Waterman Drawings - Transmittal letter	62470	.13.03.a	0387
05/28/98	URSGWCFS	Equipment Requisition Letter	62470	.01.b1	0066
05/28/98	WAVE Engineers	Newmark Project/ Submittal Review Comments Contractor submittal No. 5-26-98-1 Invoice No. 8	62470	.13.10.a1	0355
05/28/98	Wave	Submittal Review Comments	62470	.04.e	0224

	Engineers	Contractor Submittal No. 5-26-98-1 Test Procedure Invoice no. 8			
05/29/98	URSG	Fax cover letter re: significant design criteria for the North and Waterman Plants	62470	.13.03.a	0386
05/31/98	URSG	Waterman Paving & Grading	62470	.13.06.b	0419
06/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0372
06/02/98	William P Young	Cost for Permits	62470	.13.03.a	0385
06/03/98	Clearwater Environmental, Inc.	Minutes of Newmark Superfund Project Bi-weekly Meeting 06/03/98	62470	.13.03.g	0331
06/04/98	Clearwater Environmental, Inc.	Change Order Request No. 21	62470	.13.03.d	0268
06/04/98	Clearwater Environmental, Inc.	Documentation of Rain Delays from April to May 1998	62470	.13.03.a	0226
06/05/98	URSG	Response to Fax sent Regarding Penhall's Extra Cost	62470	.13.03.a	0384
06/06/98	URSGWCFS	Task 4 - Additional Interim Budget	62470	.01.b1	0067
06/08/98	URSG	PMP Addendum to the Source OU LTMP FSP	62470	.07.a3	0047a
06/08/98	URSG	Significant Design Criteria for North and Waterman Plants	62470	.13.03.a	0383
06/08/98	URSG	Transmittal Re: Available on-site all day 06/17/98 for meeting and punch list preparation	62470	.13.03.a	0382
06/08/98	WAVE Engineers	Newmark Project / North Site Pre-Start Testing	62470	.13.10.a1	0354
06/10/98	URSGWCFS	Letter - Seismic Zone 4 Calculations for GAC Vessels and Various Other Outstanding Items	62470	.03.a	0204
06/16/98	Clearwater Environmental, Inc.	Change Order Request No. 9b	62470	.13.03.d	0259
06/16/98	Clearwater Environmental, Inc.	Change Order Request No. 16a	62470	.13.03.d	0267
06/16/98	Clearwater Environmental, Inc.	Change Order Request No. 21	62470	.13.03.d	0269
06/16/98	Clearwater	Change Order Request No. 15a	62470	.13.03.d	0265

	Environment al, Inc.				
06/16/98	URSGWCFS	Seismic Design of Carbon Vessels for the Newmark Groundwater Contamination Superfund Project North Plant	62470	.04.d	0068
06/17/98	URSG	Change Order- SC-98-F0103 MOD #2, Contract Mod For Retention	62470	.13.03.d	0420
06/19/98	URSG	Client Correspondance- RE:Preconstruction Mtg.-Mt.View Pipeline Bridge Crossing, Moose Lodge Final Drwg.	62470	.13.01.a4	0415
06/19/98	URSGWCFS	Memo - Moose Lodge Final Drawing	62470	.04.d	0222
06/22/98	EPA	Memorandum - Additional Concerns on the PMP FSP and QAPjP	62470	.01.b1	0283
06/23/98	Clearwater Environment al, Inc	Change Order Request No. 18	62470	.13.03.d	0434
06/26/98	Clearwater Environment al, Inc.	Minutes of Newmark Superfund Project Bi-Weekly Meeting 06/17/98	62470	.13.03.g	0381
06/29/98	EPA	Memorandum - Additional Concerns on the PMP FSP and QAPP Addenda	62470	.01.b1	0282
07/00/98	CHJ Incorporated	Concrete Test Cylinder Data	62470	.13.10.a1	0373
07/01/98	SBMWD	Change Order #1 To Contract # 1281	62470	.13.03.d	0421
07/06/98	Clearwater Environment al, Inc.	Summary of Status Meeting and Site Walk on 06/30/98	62470	.13.03.g	0330
07/06/98	EPA	WAF Revision No. 7	62470	.01.a1	0069
07/06/98	URSGWCFS	Letter - Response to Comments dated 06/22/98 on the PMP FSP and QAPjP	62470	.01.b1	0287
07/08/98	EPA	Memorandum - Draft FSP and QAPjP Comments	62470	.01.b1	0285
07/08/98	SBMWD	Change Order No. 1 to Contract No. 1275	62470	.04.e	0223
07/09/98	EPA	WAF Revision No. 8	62470	.01.a1	0070
07/09/98	URSG	Newmark RA Plant Construction Punch List	62470	.12	0225
07/09/98	WAVE Engineers	Newmark South Plan Pre-Start Field Testing	62470	.13.10.a1	0353
07/10/98	EPA	Memorandum - Regarding PMP FSP	62470	.01.b1	0280

and QAPP

07/10/98	URSG	Letter - Response to Comments dated 06/22/98 on the PMP FSP and QAPjP Addendums	62470	.07.a3	0281
07/13/98	Clearwater Environmental, Inc.	Punch List For Newmark OD Project	62470	.13.03.e	0414
07/21/98	URSG	Letter - Response to Comments Dated 07/10/98 on the P)MP FSP and QAPjP	62470	.07.a3	0071
07/23/98	URSG	Client Correspondance- Preconstruction Site Meeting 07/29/98	62470	.13.01.a4	0413
07/23/98	URSGWCFS	Work Plan Revision No. 4	62470	.07.a1	0069a
07/27/98	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0072
07/28/98	URSGWCFS	Letter of Transmittal - Newmark As-built Documents	62470	.04.d	0203
08/03/98	Clearwater Environmental, Inc.	Change Order Request No. 23	62470	.13.03.d	0430
08/03/98	Clearwater Environmental, Inc.	Change Order Request No. 24	62470	.13.03.d	0432
08/25/98	URSG	Letter - Response to Comments Dated 07/10/98 on the PMP FSP and QAPjP Addenda	62470	.07.a3	0074
08/26/98	EPA	Memorandum - Draft FSP and QAPP - Response to Comments	62470	.01.b1	0286
08/31/98	Excel	Request for Alternate Underground Conduit	62470	.13.06.d	0378
09/08/98	Clearwater Environmental, Inc.	Change Order No. 25	62470	.13.03.d	0431
09/08/98	Clearwater Environmental, Inc.	Change Order Request No. 17	62470	.13.03.d	0435
09/09/98	URSGWCFS	Newmark/Muscoy OU issues	62470	.01.b1	0075
09/09/98	URSGWCFS	Technical Systems Audit of DataChem Laboratories, Salt Lake City, Utah Newmark Superfund Site	62470	.01.b1	0076
09/10/98	SBMWD	Project closeout South Plant Phase 2 Pipeline, Newmark Groundwater Contam. Superfund Project(C.O. 5273, Contract #1281)	62470	.13.04.c	0417
09/11/98	EPA	Appointment of New WAM - K. Hoang	62470	.01.b1	0112

replacing R. Herzig

09/14/98	URSGWCFS	Effect on GW Data from DataChem Lab SLC, UT, Based upon Technical Systems Audit Recommendations Newmark Superfund site, Remedial Action	62470	.01.b1	0110
09/15/98	EPA	Letter - Approval of PMP FSP and QAPjP Addenda to the Source OU Long-Term Monitoring and Sampling Program FSP and QAPjP	62470	.01.b1	0113
09/16/98	Clearwater Environmental, Inc.	Change Order Request No. 22a	62470	.13.03.d	0436
09/16/98	Clearwater Environmental, Inc.	Change Order Request No. 22a	62470	.13.03.d	0437
09/17/98	CHJ Incorporated Incorporated	Field Compactin Test Summary Sheet	62470	.13.10.a1	0349
09/17/98	URSG	Recommendations from September 1 and 2, 1998 Audit Subcontract Number SC-98-F-0294	62470	.09.a	0111
09/21/98	DataChem Laboratories	Response to Audit Recommendations	62470	.09.a	0229
09/23/98	SBMWD	Newmark Groundwater Contamination Superfund Project - Going from Construction to Maintenance	62470	.04.d	0118
09/28/98	URSGWCFS	Transmittal of Documents to SBMWD	62470	.01.b1	0114
09/28/98	URSGWCFS	Work Assignment Number 54-47-9NJ5, Contract number 68-W9-0054 Revision to Task 4, revision 4, of the work plan dated July 23, 1998	62470	.07.a1	0115
10/01/98	URSGWCFS	Dedication Ceremony Information - Cover Letter Only	62470	.04.c	0117
10/02/98	EPA	WAF Revision No. 9	62470	.01.a1	0119
10/05/98	EPA	Quality Assurance Office's Evaluations of Newmark Performance Monitoring Program: 1. Technical Systems Audit of Datachem Laboratory by URS Greiner performed September 1 and 2, 1998 and 2. Datachem Laboratory Response dated September 21, 1998 to URS Greiner Technical Systems Audit	62470	.01.a2	0288
10/05/98	SBMWD	Newmark Groundwater Superfund	62470	.04.d	0200

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10/07/98	Clearwater Environmental, Inc.	Change Order No. 26	62470	.13.03.d	0439
10/08/98	EPA	WAF Revision No. 10	62470	.01.a1	0202
10/17/98	URSG	Response to Request for Information No. 4 (RFI-4) dated October 15, 1997	62470	.13.03.b	0248
10/22/98	Clearwater Environmental, Inc.	Project Schedule - Newmark Superfund Site	62470	.13.03.f	0270
10/22/98	URSGWCFS	Clause B.7 - Limitation of Funds	62470	.01.b1	0201
10/26/98	Clearwater Environmental, Inc.	Change Order Request No. 22a, Revision 1	62470	.13.03.d	0438
10/26/98	Clearwater Environmental, Inc.	Change Order Request No. 22a, Revision 1	62470	.13.03.d	0440
11/09/98	EPA	WAF Revision No. 11 (revised)	62470	.01.a1	0441
11/10/98	EPA	WAF Revision No. 11	62470	.01.a1	0408
11/24/98	URSG	North and South Plant Grating Submittal - Submittal No. 3	62470	.13.03.b	0244
07/19/99	URSGWCFS	Submittal of the Work Assignment Completion Report	62470	.01.b1	0442