APPENDIX 7-A

Water Well Usage Inventory

TABLE D-1. GROUNDWATER WELL AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
Domestic Wells (Drinking Water and/or Irrigation)										
D001	EAST HELENA	3303 Plant Rd	75	40	63-73	40	Shallow	25	In Use	Not Sampled
D002	ROCKY MOUNTAIN LITE-FORM	2815 Wylie Dr	99	47	Open End	40	TBD	25	In Use	Not Sampled
D003	CONNICK ARTHUR	2540 Wylie Dr	80	35	Open End	10	TBD	25	In Use	Monthly
D004	REINIG KAREN	3120 EASTVIEW RD	80	40	Open End	60	TBD	25	In Use	Not Sampled
D005	MCCALL WENDALL	3100 EASTVIEW RD	78	39	Open End	50	TBD	25	In Use	Not Sampled
D006	HANNA RAY	2915 Wylie Dr	80	40	Open End	30	TBD	25	In Use	Not Sampled
D007	RITCHIE FRANK A	3197 EASTVIEW RD	78	38		50	TBD	25	In Use	Not Sampled
D008	CHRISTIANSEN RANDY	2819 Wylie Dr.	86	42		20	TBD	25	In Use	Not Sampled
D009	MOUQEOT GARY AND MAXINE	2905 WYLIE DR.	100	50		24	TBD	25	In Use	Not Sampled
D010	ST CLAIR ROBERT	2993 WYLIE DR	80	35		30	TBD	25	In Use	Not Sampled
D011	SANGUINE BURT	3046 Wylie Dr	63	43		18	TBD	25	In Use	Not Sampled
D012	DYSON JAMES SR.	3063 WYLIE DR	81	40		20	TBD	25	In Use	Not Sampled
D013	S S & K PROPERTIES	3020 BIG SKY LOOP	120	39		40	TBD	25	In Use	Not Sampled
D014	EDGERLEY COLLEEN / GUIDONI JAMES	TBD	59	33		20	TBD	25	In Use	Not Sampled
D015	BRANNING MORLAND	TBD	60	40		15	TBD	25	In Use	Not Sampled
D016	LEACH ROBERT L.	3042 Canyon Ferry Rd	57	15		15	TBD	25	In Use	Not Sampled
D017	NELSON ARTHUR	TBD	58	28		30	TBD	25	In Use	Not Sampled
D018	MCKAY MALCOLM J	TBD	80	50		20	TBD	25	In Use	Not Sampled
D019	WIEGLENDA DAN	TBD	77	38		30	TBD	25	In Use	Not Sampled
D020	MCCURDY RUSSELL	TBD	78	46		30	TBD	25	In Use	Not Sampled
D021	STREETER MARIN M.	TBD	63	42		15	TBD	25	In Use	Not Sampled
D022	NELSON JOANNE AND NATE	TBD	80	54		20	TBD	25	In Use	Not Sampled
D023	BRANDON BRIAN	TBD	93	56		30	TBD	25	In Use	Not Sampled
D024	RAINEY CHRIS	TBD	82	53		20	TBD	25	In Use	Not Sampled
D025	WESTON RICHARD & SHARON	TBD	54	16		20	TBD	25	In Use	Not Sampled
D026	WHITE LESTER	2945 ELKVIEW RD 59635	80	22		20	TBD	25	In Use	Not Sampled
D027	WHITE FRANCIS	TBD	74	44		22	TBD	25	In Use	Not Sampled
D028	LUDWIG JOHN	TBD	130	58		22	TBD	25	In Use	Not Sampled
D029	MOWERY DARRELL W.	TBD	72	43		30	TBD	25	In Use	Not Sampled
D030	MILLER VERNON	3157 CANYON FERRY RD	90	34		16	TBD	25	In Use	Not Sampled
D031	JETTE DENNIS & MADELINE	TBD	60	35		40	TBD	25	In Use	Not Sampled
D032	MASSE KENNETH	TBD	75	20		30	TBD	25	In Use	Not Sampled
D033	BRACKMAN DALE	3232 GRAND VIEW RD	55	35		15	TBD	25	In Use	Not Sampled
D034	WHITE DANNY	TBD	61	25		24	TBD	25	In Use	Not Sampled
D035	SMITH MILLIE A	TBD	98	49		40	TBD	25	In Use	Not Sampled
D036	BIRD LARAMIE	TBD	61	30		15	TBD	25	In Use	Not Sampled
D037	LEWING KEN	3225 GRAND VIEW RD	64	44		15	TBD	25	In Use	Not Sampled
D038	SLATER L.L.	TBD	95	50		30	TBD	25	In Use	Not Sampled
D039	WIEDBUSCH MR. & MRS.	TBD	78	30		20	TBD	25	In Use	Not Sampled
D040	POWERS RUSSELL	3257 LANNING RD 59635	64	40		30	TBD	25	In Use	Not Sampled
D041	KULHOM RAYMOND	TBD	109	60		20	TBD	25	In Use	Not Sampled
D042	REED MICHAEL	TBD	95	50		30	TBD	25	In Use	Not Sampled
D043	PETER ROBERT & JOAN	TBD	62	35		20	TBD	25	In Use	Not Sampled

TABLE D-1. GROUNDWATER WELL AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
D044	MILLER LEO M	TBD	81	56		20	TBD	25	In Use	Not Sampled
D045	KETRON RANDY & VENUS	TBD	79	38		25	TBD	25	In Use	Not Sampled
D046	OSFORNE TOM	TBD	87	0		35	TBD	25	In Use	Not Sampled
D047	BOGLE RICK	TBD	81	40		20	TBD	25	In Use	Not Sampled
D048	UNCLES GLENN	TBD	60	38		18	TBD	25	In Use	Not Sampled
D049	CERCLE SUSAN	TBD	105	54		0	TBD	25	In Use	Not Sampled
D050	HUTTINGER LLOYD JR	2910 WESTVIEW RD	79	44		30	TBD	25	In Use	Not Sampled
D051	RING LARRY	3275 TRERISE RD	76	48		30	TBD	25	In Use	Not Sampled
D052	VAN DYKE DICK	2850 FISHER LN	91	37		30	TBD	25	In Use	Not Sampled
D053	KISTLER ROBERT & C.	3288 Trerise Rd	89	45		30	TBD	25	In Use	Not Sampled
D054	HURLBERT EUGENE L.	3292 Trerise Rd.	67	27		20	TBD	25	In Use	Not Sampled
D055	FRISON WILLARD	3345 GRAND VIEW RD	57	20		20	TBD	25	In Use	Not Sampled
D056	BIEBER SHEILA	3352 Grandview Rd	160	50		20	TBD	25	In Use	Not Sampled
D057	HUCK DENNIS	3340 GRANDVIEW RD	68	28		12	TBD	25	In Use	Not Sampled
D058	NORBECK PETER	TBD	69	30		20	TBD	25	In Use	Not Sampled
D059	DELONG M/M ROBERT	TBD	83	50		20	TBD	25	In Use	Not Sampled
D060	SMITH CLIFF	TBD	101	58		30	TBD	25	In Use	Not Sampled
D061	SVALESON DAVID	TBD	96	45		20	TBD	25	In Use	Not Sampled
D062	COCKRON LARRY	3384 Canyon Ferry Rd.	60	40		15	TBD	25	In Use	Not Sampled
D063	MORELLO CHARLES J.	3055 Valley Dr.	89	68		30	TBD	25	In Use	Not Sampled
D064	LYTLE BRENT	TBD	85	46		30	TBD	25	In Use	Not Sampled
D065	COLLINGS REED O. AND PHYLLIS	TBD	40	12		12	TBD	25	In Use	Not Sampled
D066	BRAZDA LARRY	TBD	65	22		20	TBD	25	In Use	Not Sampled
D067	KANDILAS MIKE AND HEIDI	2940 VALLEY DR	80	45		20	TBD	25	In Use	Not Sampled
D068	NYE JOSEPH	2932 Valley Drive	80	40		25	TBD	25	In Use	Not Sampled
D069	ENGELKING DOUGLAS	TBD	60	30		20	TBD	25	In Use	Not Sampled
D070	EATINGER CHUCK	TBD	68	35		30	TBD	25	In Use	Not Sampled
D071	MESKIMEN CLARENCE	2860 VALLEY DR	79	29		20	TBD	25	In Use	Not Sampled
D072	HOY DUANE & KIMBERLY	2843 STEVEN RD	90	48		30	TBD	25	In Use	Not Sampled
D073	LEBAHN LOIS	TBD	67	37		15	TBD	25	In Use	Not Sampled
D074	COVEY WILLIAM	2850 VALLEY DR	58	36		30	TBD	25	In Use	Not Sampled
D075	JEAN RENEE	2840 VALLEY DR	248	60		60	TBD	25	In Use	Not Sampled
D076	HOFFMAN RAY	3370 HOFFMAN RD	71	40		15	TBD	25	In Use	Not Sampled
D077	BRIGHT TOM	3355 HOFFMAN RD	73	35		30	TBD	25	In Use	Not Sampled
D078	MCGLYNN STEVE	TBD	88	54		30	TBD	25	In Use	Not Sampled
D079	BUJOK RICHARD	3418 Canyon Ferry Rd	107	67		30	TBD	25	In Use	Not Sampled
D080	CHAMBERS LARRY	3454 Canyon Ferry Rd	94	60		20	TBD	25	In Use	Not Sampled
D081	CAIL TIMOTHY C	3517 CANYON FERRY RD	119	69		35	TBD	25	In Use	Not Sampled
D082	SIEWERT ALBERT * EAST HELENA MT	3060 Dove Rd	0	59		0	TBD	25	In Use	Not Sampled
D083	MOORE KATHY	3565 APPLEBEE CT	100	75		30	TBD	25	In Use	Not Sampled
D084	EAST VALLY VOL. FIRE DEPT.	TBD	100	58		50	TBD	25	In Use	Not Sampled
D085	ALLEN MRS TOM * EAST HELENA MT	TBD	0	0		0	TBD	25	In Use	Not Sampled
D086	JAVORNIK MARK & EMLYN	3590 Wildfire Rd	235	70		30	TBD	25	In Use	Not Sampled
D087	BURKE ROBERT	3620 WILDFIRE RD	100	66		30	TBD	25	In Use	Not Sampled

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Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
D088	ST CLAIR LARRY	3570 Wildfire Rd Lot 5 Wildfire Acr	205	57		50	TBD	25	In Use	Not Sampled
D089	TENNIS ROBERT L & SHIRLEY	3530 Wildfire Rd.	218	60		60	TBD	25	In Use	Not Sampled
D090	DOLAN ROBERT	3625 Wildfire Rd.	99	68		18	TBD	25	In Use	Not Sampled
D091	VAN DIEST RONALD AND LINDA	3535 Wildfire Rd.	243	82		50	TBD	25	In Use	Not Sampled
D092	REED HOWARD	530 TEJON LN	117	70		30	TBD	25	In Use	Not Sampled
D093	SCHWEYEN BILL & JUDY	1050 E LEWIS ST	199	73		60	TBD	25	In Use	Not Sampled
D094	HAMM AND LEGGIN ERIC AND PARICIA	1142 E. Lewis St.	160	76		20	TBD	25	In Use	Not Sampled
D095	MARCHWICK, DON E.	1189 E LEWIS ST	167	80		12	TBD	25	In Use	Not Sampled
D096	LINDSAY WES	TBD	170	90		20	TBD	25	In Use	Not Sampled
D097	BLALOCK JACK	1189 Dudley St	215	80		15	TBD	25	In Use	Not Sampled
D098	QUILLIN JIM	1222 E KING ST	140	60		25	TBD	25	In Use	Once (05/2007)
D099	MURPHY MARK	1123 E GROSCHELL ST	185	60		20	TBD	25	In Use	Not Sampled
D100	ENYEART JAMES AND MISHELLE	1125 E GROSCHELL ST	194	77		60	TBD	25	In Use	Not Sampled
D101	COX WILLIAM III	1166 E RIGGS ST	132	60		20	TBD	25	In Use	Not Sampled
D102	PARKINSON RICHARD H.	225 MAPLE AVE	200	74		30	TBD	25	In Use	Not Sampled
D103	JENKINS DANIEL	1185 E CLARK ST	160	75		20	TBD	25	In Use	Not Sampled
D104	ST ANN'S CATHOLIC CEMETERY	TBD	156	40		35	TBD	25	In Use	Not Sampled
D105	MASON HEATH	TBD	198	109		35	TBD	25	In Use	Not Sampled
D106	MCDONALD GORDON	TBD	130	42		25	TBD	25	In Use	Not Sampled
D107	COCK CLIFFORD	224 E. Riggs	20	20		20	TBD	25	In Use	Not Sampled
D108	WALTER EDWARD & DEBORAH	24 W. Groschell	41	8		45	TBD	25	In Use	Not Sampled
D110	MONTANA POWER CO	TBD	105	85		1	TBD	25	In Use	Not Sampled
D111	Runkles Mark	3655 E US HIGHWAY 12	49	12		30	TBD	25	In Use	Once (08/2009)
D112	NICKOLS TED L	3615 HIGHWAY 12 E	180	50		20	TBD	25	In Use	Not Sampled
D113	LIPES BUTCH	2779 WINSLOW AVE	119	70		20	TBD	25	In Use	Once (08/2009)
D114	SKINNER ANDY	3350 BECK ST	100	61		30	TBD	25	In Use	Once (08/2009)
D115	BOBINSKI JOHN	2705 WINSLOW AVE	160	70		16	TBD	25	In Use	Once (08/2009)
D116	BOMPART JAMES	TBD	0	0		10	TBD	25	In Use	Not Sampled
D117	MILLER MARGARET & FRANK	3420 WESTON ST	97	57		12	TBD	25	In Use	Once (08/2009)
D118	KAUFMAN R H	TBD	150	50		15	TBD	25	In Use	Not Sampled
D119	STRATTON HOWARD EUGENE	3434 BECK ST	80	45		15	TBD	25	In Use	Not Sampled
D120	Padilla John	3430 WESTON	90	45		20	TBD	25	In Use	Once (08/2009)
D121	KESSLER JOANNE	3485 BECK ST	90	55		30	TBD	25	In Use	Once (08/2009)
D122	LARSON DANIEL H	3459 WESTON ST	93	36		8	TBD	25	In Use	Once (08/2009)
D123	Potter Barry	3460 WESTON ST	80	50		30	TBD	25	In Use	Once (08/2009)
D124	Eiler Rogge	2830 WINSLOW AVE	130	55		20	TBD	25	In Use	Twice (07 & 08/2009)
D125	CAPPS BARBARA	2765 WINSLOW AVE	180	70		15	TBD	25	In Use	Once (08/2009)
D126	Jepsin John	3470 WESTON ST	114	53		25	TBD	25	In Use	Once (08/2009)
D127	CLARK ROBERT	3420 BECK ST	120	50		20	TBD	25	In Use	Not Sampled
D127	MILLEGAN ROBERT & MARGARET * WELL #2	TBD	100	41		8	TBD	25	In Use	Not Sampled
D128	TUSLER GLEN	2785 WINSLOW AVE	111	70		18	TBD	25	In Use	Not Sampled
D129	Nacher Joyce	2743 WINSLOW	128	64		30	TBD	25	In Use	Once (08/2009)
D130	LAMPING DANIEL	3491 WESTON ST	46	28	Open End	20	Shallow	25	In Use	Once (08/2009)
D131	HANSON JEFF	2700 WINSLOW AVE	95	45		25	TBD	25	In Use	Once (08/2009)

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Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
D132	Lamping Rick	3485 WESTON ST	63	38		18	TBD	25	In Use	Once (08/2009)
D133	PREBIL DAN	2715 WINSLOW AVE	92	61		30	TBD	25	In Use	Once (08/2009)
D134	POTTER DIANE	3463 BECK ST	140	50		25	TBD	25	In Use	Once (08/2009)
D135	WOLD COLIN & THERESA	2780 WINSLOW AVE	100	55		16	TBD	25	In Use	Once (08/2009)
D136	WETHERALL LEONA	2735 WINSLOW AVE	120	54		20	TBD	25	In Use	Once (08/2009)
D138	MORTIEAU JOHN	1165 Lewis St.	160	70		20	TBD	25	In Use	Once (05/2007)
D139	CAMBELL WILL	1265 E KING ST	198	127		35	TBD	25	In Use	Not Sampled
D145	JENSEN DAVID * SOUTH WELL	401 Gail St	160	18		20	TBD	25	In Use	Monthly
D146	NORMAN CHARLES	407 E. Porter St.	50	16		30	TBD	25	In Use	Annual
D147	JIRAY ALBERT	408 E. Main	40	0		20	TBD	25	In Use	Refused Sampling (5/2007)
D153	St. Germaine	126 E. Clinton St.	NA	NA		NA	TBD	25	In Use	Annual
D157	Marcum Jamie and Tina	303 Thurman Ave	NA	NA		NA	TBD	25	In Use	Annual
D158	Balcerzak Matt & Penny	701 Manlove	137	68		20	TBD	25	In Use	Annual*
D159	Hulst Kevin	800 Manlove	NA	NA		NA	TBD	25	In Use	Annual*
D160	Wiseman Jim	802 Manlove	NA	NA		NA	TBD	25	In Use	Annual*
D161	Carlson Rob	1 Gail St.	NA	NA		NA	TBD	25	In Use	Annual
D162	Duel Dave and Nancy	3 Gail St	NA	NA		NA	TBD	25	In Use	Annual
D163	Tamol Casey	9 Gail St.	NA	NA		NA	TBD	25	In Use	Annual
D164	Mosier Shane	105 Gail St.	NA	NA		NA	TBD	25	In Use	Annual
D165	Pierce Jan	108/110 Gail St	NA	NA		NA	TBD	25	In Use	Once (05/2007)
D166	Foley Pat	203 Gail St.	NA	NA		NA	TBD	25	In Use	Monthly
D170	Robeson John	1266 King St.	NA	NA		NA	TBD	25	In Use	Once (05/2007)
D171	Mohs Robin	2815 Steven Rd	NA	NA		NA	TBD	25	In Use	Once (05/2007)
D172	Furois William	1266 Dudley	NA	NA		NA	TBD	25	In Use	Once (05/2007)
D176	Gustine Rusty	1189 E. Clinton	NA	NA		NA	TBD	25	In Use	Once (11/2007)
D182	Venetz Matt	2489 Wylie Dr	NA	NA		NA	TBD	25	In Use	Once (04/2008)
D183	Morgan Oyer	1190 E. King	NA	NA		NA	TBD	25	In Use	Once (04/2008)
D184	BURNHAM DON & NANCY	2843 CANYON FERRY RD	20	0		0	TBD	25	Unknown	Not Sampled
D185	RIITANO DAVE	2605 CANYON FERRY RD	160	10		100	TBD	25	Unknown	Not Sampled
D186	BARNES DON & RUTH * WELL #2	TBD	45	20		80	TBD	25	Unknown	Not Sampled
D187	BARNES DON & RUTH * WELL #1	TBD	40	20		700	TBD	25	Unknown	Not Sampled
D188	BARNES DON & RUTH * WELL #3	TBD	35	20		300	TBD	25	Unknown	Not Sampled
D189	BUCK GLENNA K	2885 CANYON FERRY RD	86	38		60	TBD	25	Unknown	Not Sampled
D190	ORE MARGARET	2865 CANYON FERRY RD	60	35		20	TBD	25	Unknown	Not Sampled
D191	Reed Mary & Melvin	2720 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D192	Streeter Linda	2725 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D193	Ferlicka Don	2730 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D194	Zugg Nathan	2740 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D195	Martian Arnold	2746 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D196	Lites Chuck & Kim	2775 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D197	Delong Dorothy	3433 Beck Street	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D198	Statton Grant Well #1	3434 Beck Street	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D199	Statton Grant Well #2	3434 Beck Street	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D200	Wenger Ed	2770 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Twice (07 & 08/2009)

TABLE D-1. GROUNDWATER WELL AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

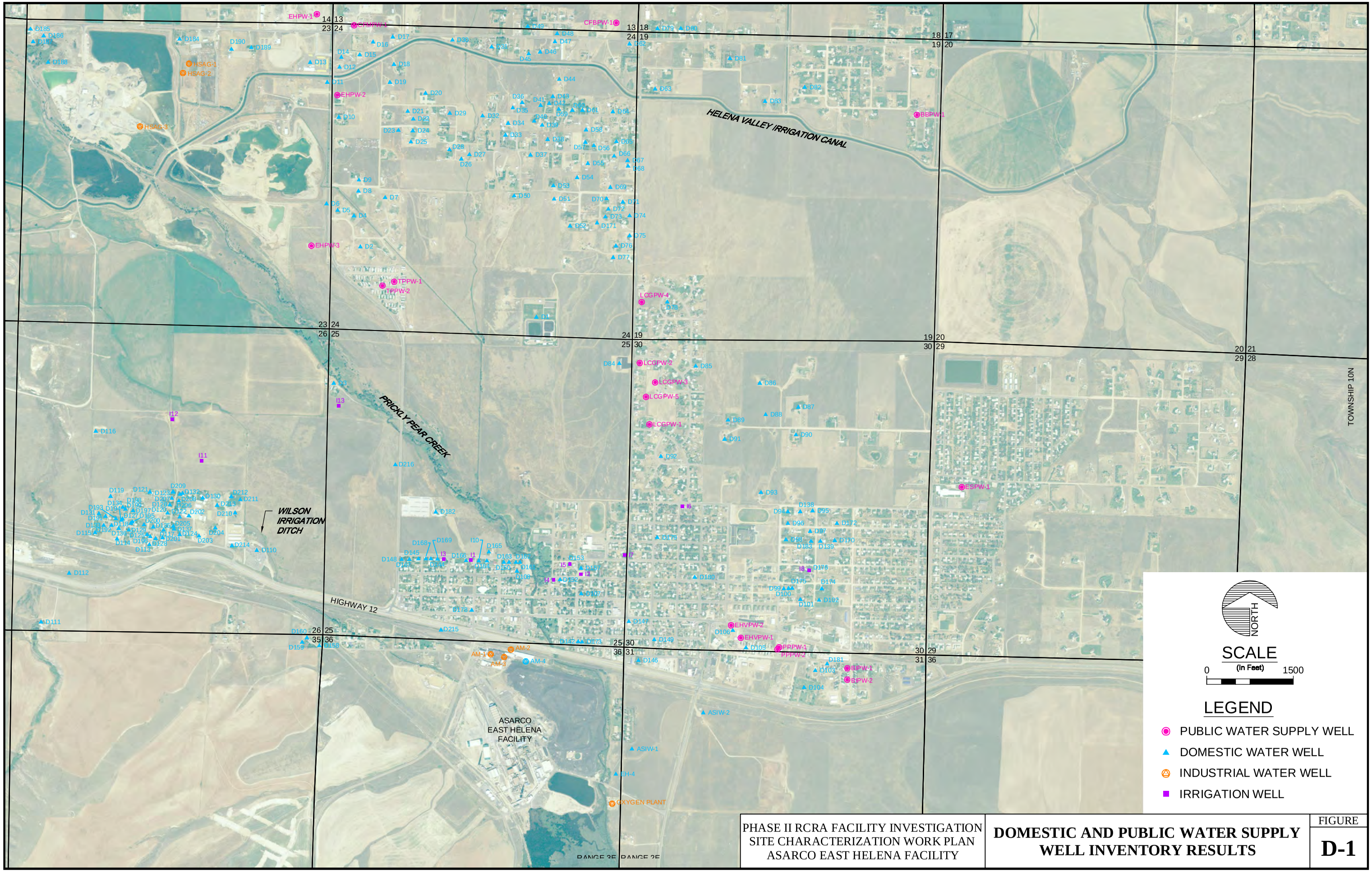
Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
D201	Henne Larry	2795 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D202	Larson Dan	2850 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D203	Larson Dan	2858 Winslow	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D204	Gervais Pat & Dan	2880 Winslow Ave	TBD	TBD		TBD	TBD	TBD	In Use	Once (07/2009)
D205	Tobin Jeff	3445 Weston	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D206	Davy Bill	3465 Weston	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D207	Shepard Cheryl	3480 Weston	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D208	Hamper Paul	3489 Weston	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D209	Clampitt Chris & Barbara	3490 Weston	TBD	TBD		TBD	TBD	TBD	In Use	Once (08/2009)
D210	Schaefer Don	3465 Allied Dr	TBD	TBD		TBD	TBD	TBD	In Use	Once (07/2009)
D211	McKeegan Mike	3475 Allied Dr	TBD	TBD		TBD	TBD	TBD	In Use	Once (07/2009)
D212	Allick Bill	3495 Allied Dr	TBD	TBD		TBD	TBD	TBD	In Use	Once (07/2009)
D213	Watts Penny	3480 Allied Dr	TBD	TBD		TBD	TBD	TBD	In Use	Once (07/2009)
D214	Schaffs Blain & Lora	3425 Allied Dr	TBD	TBD		TBD	TBD	TBD	In Use	Twice (07 & 08/2009)
D215	Runkles Mark	3885 US Highway 12	TBD	TBD		TBD	TBD	TBD	In Use	Once (07/2009)
Industrial Well (Not used for drinking water)										
AM-1	American Chemet	TBD	220	22	NA	NA	NA	180*	In Use	Not Sampled
AM-2	American Chemet	TBD	162	25	100-162	50	Deep	180*	In Use	Not Sampled
AM-3	American Chemet	TBD	140	22	91-140	60	Deep	180*	In Use	Not Sampled
AM-4	American Chemet	TBD	160	22	100-160	30	Deep	180*	In Use	Annual
HSAG-1	HELENA SAND & GRAVEL	TBD	95	30		50	TBD	TBD	Unknown	Not Sampled
HSAG-2	HELENA SAND & GRAVEL	TBD	95	25		0	TBD	TBD	Unknown	Not Sampled
HSAG-3	HELENA SAND & GRAVEL	TBD	80	30		1200	TBD	TBD	Unknown	Not Sampled
Irrigation Well (Not used for drinking water)										
I1	RICKS DAVID L.	201 Gail St.	41	20		20	TBD	25	No Pump	Confirmed (5/2007)
I2	GAGE EUGENE M AND PATRICIA A	210 E. Groschell St.	60	10		100	TBD	25	In Use	Annual
I3	ROMASKO JOHN	301 W. Gail St.	61	0		0	TBD	25	Abandoned	Monthly (6/2001-10/2007)
I4	St. Clair	107 E. Groschell St.	NA	NA		NA	TBD	25	In Use	Annual
I5	St. Germaine	126 E. Clinton St.	NA	NA		NA	TBD	25	Out of Service	Annual
I6	LEWING ED & SALLY	607 Lewis St.	80	40		20	TBD	25	In Use	Annual (2001-2008)
I7	Adkins Bob	316 N. Montana St	NA	NA		NA	TBD	25	In Use	Annual (2001-2008)
I8	Gustine Rusty	1189 E. Clinton	NA	NA		NA	TBD	25	In Use	Once (11/2007)
I9	CONNICK ARTHUR	2540 Wylie Dr	NA	NA		NA	TBD	25	In Use	Monthly
I10	NORDSTROM CHESTER	109 Gail St	46	12		30	TBD	25	In Use	Monthly
I11	TBD	TBD	TBD	TBD		TBD	TBD	TBD	TBD	TBD
I12	TBD	TBD	TBD	TBD		TBD	TBD	TBD	TBD	TBD
I13	John Simac	TBD	TBD	TBD		TBD	TBD	TBD	TBD	TBD
ASIW-1	Asarco Housing	TBD	73	19	NA	20	Shallow	NA	Unknown	Not Sampled
ASIW-2	Asarco Housing	TBD	95	36	75-95	40	Shallow	NA	Unknown	Not Sampled
Public Water Supply Well										
BBPW-1	BAHNY BRAE SUBDIVISION	TBD	100	42		100	Undefined		In Use	Not Sampled

TABLE D-1. GROUNDWATER WELL AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
BIPW-1	BUZZ INN BOB DAVIS	TBD	151	90		20	Deep	TBD	In Use	Once (12/2007)
BIPW-2	BUZZ INN TRAILER COURT	TBD	147	90		20	Deep	TBD	In Use	Once (12/2007)
CFBPW-1	CANYON FERRY RD. BAPTIST CHURCH	TBD	99	70		30	Deep?	40	In Use	Not Sampled
CFMPW-1	CANYON FERRY MINI BASKET	448 Paxton	105	42		30	Deep?	TBD	In Use	Once (12/2007)
EHPW-1	CITY OF EAST HELENA * P-1	TBD	15	0		0	Undefined	3060*	In Use	Annual
EHPW-2	CITY OF EAST HELENA * P-2	TBD	153	35		350	Shallow	3060*	Inactive	Annual (Added 2009)
EHPW-3	CITY OF EAST HELENA * WELL #3	TBD	220	34		6	Shallow	3060*	In Use	Annual
EHVPW-1	Elkhorn View Trailer Court	TBD	NA	NA		NA	TBD	TBD	In Use	Once (05/2007)
EHVPW-2	Elkhorn View Trailer Court	TBD	NA	NA		NA	TBD	TBD	In Use	Once (05/2007)
ESPW-1	EASTGATE SCHOOL DISTRICT 9	TBD	139	64		35	Deep	TBD	In Use	Once (12/2007)
LCGPW-1	LA CASA GRANDE ESTATES WATER COMPANY - WELL 1	TBD	100	52		100	TBD	510*	Inactive	Not Sampled
LCGPW-2	LA CASA GRANDE ESTATES WATER COMPANY - WELL 2	TBD	263	30		60	Deep	510*	Inactive	Not Sampled
LCGPW-3	LA CASA GRANDE ESTATES WATER COMPANY - WELL 3	TBD	180	30		50	Deep	510*	In Use	(05/2007 and 12/2007)
LCGPW-4	LA CASA GRANDE ESTATES WATER COMPANY - WELL 4	TBD	201	24		150	Deep	510*	In Use	(05/2007 and 12/2007)
LCGPW-5	LA CASA GRANDE ESTATES WATER COMPANY - WELL 5	TBD	320	62		300	Deep	510*	In Use	(05/2007 and 12/2007)
PPPW-1	PHOENIX PARK - WELL 1	TBD	191	60		40	Deep	TBD	In Use	(05/2007 and 12/2007)
PPPW-2	PHOENIX PARK - WELL 2	TBD	191	60		70	Deep	TBD	In Use	(05/2007 and 12/2007)
TPPW-1	Twilight Mobile Home Park	TBD	NA	NA		NA	TBD	TBD	In Use	Annual
TPPW-2	Twilight Mobile Home Park	TBD	NA	NA		NA	TBD	TBD	In Use	Annual
Unknown Use										
D142	MIEHLE JOHN & JUNE	212 E. Pacific	14	6		100	TBD	NA	Unknown	Special Sampling Required
D144	FOX ROBERT	317 Gail St.	75	15	Open End	20	Shallow	NA	Unknown	Not Sampled
D148	HOFF DONALD	409 W. Gail St.	38	20		20	TBD	NA	Out of Service	Confirmed (5/2007) Once(2001)
D149	DULLUM EUGENE	513 Clark St	30	20		9	TBD	NA	Inactive	Confirmed (5/2007)
D150	WIEBECK WILLIAM	7 Gail St	100	12		80	TBD	NA	Unknown	Once (7/2001)
D152	St. Clair Scott	111 E. Groschell St.	NA	NA		NA	TBD	NA	Out of Service	Home Built Over Well (5/2007)
D167	Fleisner Frank and Pam	405 Gail St.	80	29	Open End	30	Shallow	NA	Out of Service	Once (11/2007)
D168	NA	319 Gail St	NA	NA		NA	TBD	NA	Unknown	Not Sampled
D169	NA	305 Gail St	NA	NA		NA	TBD	NA	Unknown	Not Sampled
D173	Backus Margaret	224 E. Pacific	NA	NA		NA	TBD	NA	Out of Service	Confirmed (5/2007)
D174	Moore Jim	1226 E. Groschell St.	NA	NA		NA	TBD	NA	Unknown	Once (11/2007)
D175	Poe Marie	1145 E. Groschell St.	NA	NA		NA	TBD	NA	Unknown	Once (11/2007)
D178	NA	202 W. Main	NA	NA		NA	TBD	NA	Unknown	Not Sampled
D179	NA	502 King St	NA	NA		NA	TBD	NA	Unknown	Not Sampled
D180	NA	606 E. Groschell	NA	NA		NA	TBD	NA	Unknown	Not Sampled
D181	Woods Sam	1193 Clark St	NA	NA		NA	TBD	NA	Unknown	Once (10/2008)
D216	TBD	TBD	TBD	TBD		TBD	TBD	TBD	Unk`	Not Sampled
EH-4	NA	TBD	170	35	46-49	NA	Shallow	NA	Unknown	Not Sampled
Oxygen Plant	Riff John	TBD	25-30	NA		NA	TBD	NA	Unknown	Not Sampled
NA-Data is not aviliable										
TBD -Data may be available but has not been determined										
SWL - Non-pumping water level in well as measured from top of casing. All data from Montana Groundwater Information Center Well Completion Reports										

TABLE D-1. GROUNDWATER WELL AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID	Owner/ Well Log Name	Address	Total Depth	SWL (Feet)	Screened Interval (ft bgs)	Well Yield (GPM)	Source Aquifer	Permitted Pumping Rate (GPM)	Status	Asarco Sampling History
Total Depth - Total Depth of well from ground surface. All data from Montana Groundwater Information Center Well Completion Reports.										
Well Yield - Water well produced during initial drilling. All data from Montana Groundwater Information Center Well Completion Reports.										
Source Aquifer - Aquifer water is being pumped from.										
Permitted Pumping Rate - Pumping rate allowed by water right.										
	*Total flow rate for all wells operated by water right owner									
Status - Current well use determined from Asarco Sampling Program and Montana Groundwater Information Center.										
Sampling History - Refers to Asarco Sampling Programs only.										



PHASE II RCRA FACILITY INVESTIGATION
SITE CHARACTERIZATION WORK PLAN
ASARCO EAST HELENA FACILITY

DOMESTIC AND PUBLIC WATER SUPPLY WELL INVENTORY RESULTS

FIGURE
D-1

UPDATE TIME: 1:39 PM
LTABORSKY\HEL\20090924\I:\LAND PROJECTS\105408\DWG\105408H030.DWG

Hydrometrics, Inc.
Consulting Scientists and Engineers

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
INSTREAM	41I 30017546	PRICKLY PEAR CREEK	MONTANA FWP	INSTREAM	10N/3W	23	See Footnote 1	261900	414300	FISHERY	30	CFS
INSTREAM	41I 30017546	PRICKLY PEAR CREEK	MONTANA FWP	INSTREAM	10N/3W	25	See Footnote 1	261900	414300	FISHERY	30	CFS
INSTREAM	41I 30017546	PRICKLY PEAR CREEK	MONTANA FWP	INSTREAM	10N/3W	26	See Footnote 1	261900	414300	FISHERY	30	CFS
INSTREAM	41I 30017546	PRICKLY PEAR CREEK	MONTANA FWP	INSTREAM	10N/3W	36	See Footnote 1	261900	414300	FISHERY	30	CFS
INSTREAM	41I 30017547	PRICKLY PEAR CREEK	MONTANA FWP	INSTREAM	10N/3W	36	See Footnote 1	261900	414300	FISHERY	22	CFS
POD-1	41I 121033 00	PRICKLY PEAR CREEK	ASARCO LLC	PUMP	10N/3W	36	SENESE	261600	414900	IRRIGATION	421.87	GPM
POD-1	41I 121035 00	PRICKLY PEAR CREEK	ASARCO LLC	PUMP	10N/3W	36	SENESE	261600	414900	IRRIGATION	394.94	GPM
POD-1	41I 121032 00	PRICKLY PEAR CREEK	ASARCO LLC	PUMP	10N/3W	36	SENENE	261600	414900	IRRIGATION	1.25	CFS
POD-1	41I 121032 00	PRICKLY PEAR CREEK	ASARCO LLC	PUMP	10N/3W	36	SENESE	261600	414900	IRRIGATION	1.25	CFS
POD-2	41I 121042 00	PRICKLY PEAR CREEK	ASARCO LLC	HEADGATE	10N/3W	36	NESESE	261400	414900	INDUSTRIAL	224.4	GPM
POD-2	41I 121043 00	PRICKLY PEAR CREEK	ASARCO LLC	HEADGATE	10N/3W	36	NESESE	261400	414900	INDUSTRIAL	2.5	CFS
POD-3	41I 89279 00	PRICKLY PEAR CREEK	EASTGATE WATER & SEWER ASSN % LEE WOLFE & HAMLIN FAMILY REVOCABLE LIVING TRUST	HEADGATE	10N/3W	36	SESENE	262000	415000	IRRIGATION	421.87	GPM
POD-3	41I 89275 00	PRICKLY PEAR CREEK	EASTGATE WATER & SEWER ASSN % LEE WOLFE & HAMLIN FAMILY REVOCABLE LIVING TRUST	LIVESTOCK DIRECT FROM SOURCE	10N/3W	36	SESENE	262000	415000	STOCK	NA	NA
POD-3	41I 89277 00	PRICKLY PEAR CREEK	EASTGATE WATER & SEWER ASSN % LEE WOLFE & HAMLIN FAMILY REVOCABLE LIVING TRUST	HEADGATE	10N/3W	36	SESENE	262000	415000	IRRIGATION	1.25	CFS
POD-3	41I 89278 00	PRICKLY PEAR CREEK	EASTGATE WATER & SEWER ASSN % LEE WOLFE & HAMLIN FAMILY REVOCABLE LIVING TRUST	HEADGATE	10N/3W	36	SESENE	262000	415000	IRRIGATION	1.69	CFS
POD-4	41I 89798 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	STOCK	NA	NA
POD-4	41I 89799 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	2.5	CFS
POD-4	41I 89800 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	1.63	CFS
POD-4	41I 89801 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	STOCK	NA	NA

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-4	41I 89802 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	STOCK	NA	NA
POD-4	41I 89803 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	3.35	CFS
POD-4	41I 89804 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	1.25	CFS
POD-4	41I 89805 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	STOCK	NA	NA
POD-4	41I 89819 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	2.5	CFS
POD-4	41I 89820 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	2.13	CFS
POD-4	41I 89821 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	3.35	CFS
POD-4	41I 89822 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	1.25	CFS
POD-4	41I 92231 00	PRICKLY PEAR CREEK	KEYS DOROTHY D & KEYS JAMES L	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	224.4	GPM
POD-4	41I 92233 00	PRICKLY PEAR CREEK	KEYS DOROTHY D & KEYS JAMES L	HEADGATE	10N/3W	36	NENWSE	261800	414600	STOCK	NA	NA
POD-4	41I 117641 00	PRICKLY PEAR CREEK	SIMAC JOHN W	PUMP	10N/3W	25	NWNW	261800	414600	IRRIGATION	2.5	CFS
POD-4	41I 117641 00	PRICKLY PEAR CREEK	SIMAC JOHN W	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	2.5	CFS
POD-4	41I 46237 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	36	NENWSE	261800	414600	STOCK	NA	NA
POD-4	41I 46238 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	36	NENWSE	261800	414600	IRRIGATION	3.35	CFS
POD-5	41I 121036 00	PRICKLY PEAR CREEK	HELENA SAND & GRAVEL	HEADGATE	10N/3W	25	NESWSE	263000	414600	IRRIGATION	1.6	CFS
POD-5	41I 121031 00	PRICKLY PEAR CREEK	HELENA SAND & GRAVEL	HEADGATE	10N/3W	25	NESWSE	263000	414600	IRRIGATION	4.36	CFS
POD-6	41I 89294 00	PRICKLY PEAR CREEK	GORSICH CHARLES J	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	328	GPM
POD-6	41I 90048 00	PRICKLY PEAR CREEK	RUNNING W CATTLE CO	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	2.5	CFS

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-6	41I 90049 00	PRICKLY PEAR CREEK	RUNNING W CATTLE CO	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	1.25	CFS
POD-6	41I 1182 00	PRICKLY PEAR CREEK	VINCENT BILLIE R & VINCENT VICTOR F	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	1.25	CFS
POD-6	41I 1183 00	PRICKLY PEAR CREEK	VINCENT BILLIE R & VINCENT VICTOR F	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	2.5	CFS
POD-6	41I 1184 00	PRICKLY PEAR CREEK	VINCENT BILLIE R & VINCENT VICTOR F	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	1.0	CFS
POD-6	41I 49959 00	PRICKLY PEAR CREEK	AGTARAP DARLA J & CHRISTIANSEN RANDY & HUTTINGER LLOYD & LUDWIG JOHN & LUDWIG LESLIE L & MAY PATRICK M & RING LARRY W & RITCHIE FRANK A & SOSA DEBORAH J & YUHAS M LAVERNE	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	1.88	CFS
POD-6	41I 88986 00	PRICKLY PEAR CREEK	BROWN DAVID J & BROWN MARGARET A	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	372.5	GPM
POD-6	41I 89109 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	IRRIGATION	7.58	CFS
POD-6	41I 89109 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	7.58	CFS
POD-6	41I 89110 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	IRRIGATION	7.58	CFS
POD-6	41I 89110 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	7.58	CFS
POD-6	41I 89113 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW	LIVESTOCK DIRECT FROM SOURCE	10N/3W	25	NWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89113 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89113 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89114 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW	LIVESTOCK DIRECT FROM SOURCE	10N/3W	25	NWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89114 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89114 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	STOCK	NA	NA

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-6	41I 89115 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW	LIVESTOCK DIRECT FROM SOURCE	10N/3W	25	NWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89115 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89115 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89116 00	PRICKLY PEAR CREEK	INC%BRIDGEVIEW MANAGEMENT CO INC	LIVESTOCK DIRECT FROM SOURCE	10N/3W	25	NWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89116 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89116 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	STOCK	NA	NA
POD-6	41I 89117 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	IRRIGATION	381.48	GPM
POD-6	41I 89117 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	381.48	GPM
POD-6	41I 89118 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	NESWSE	263200	414600	IRRIGATION	2.5	CFS
POD-6	41I 89118 00	PRICKLY PEAR CREEK	DOMESTIC REALTY CO INC%BRIDGEVIEW MANAGEMENT CO INC	HEADGATE	10N/3W	25	SENWSE	263200	414600	IRRIGATION	2.5	CFS
POD-7	41I 89346 00	PRICKLY PEAR CREEK	MELANEY LINDA	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS
POD-7	41I 89347 00	PRICKLY PEAR CREEK	MELANEY LINDA	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89348 00	PRICKLY PEAR CREEK	BAUM BARBARA A & BAUM DAVID R	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89349 00	PRICKLY PEAR CREEK	BAUM BARBARA A & BAUM DAVID R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	421.87	GPM
POD-7	41I 89350 00	PRICKLY PEAR CREEK	HEIGH BILLI G & HEIGH MARCI B	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89351 00	PRICKLY PEAR CREEK	HEIGH BILLI G & HEIGH MARCI B	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 89352 00	PRICKLY PEAR CREEK	BAUM BARBARA A & BAUM DAVID R	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89353 00	PRICKLY PEAR CREEK	BAUM BARBARA A & BAUM DAVID R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	376.99	GPM
POD-7	41I 89354 00	PRICKLY PEAR CREEK	HEIGH BILLI G & HEIGH MARCI B	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89355 00	PRICKLY PEAR CREEK	HEIGH BILLI G & HEIGH MARCI B	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 89358 00	PRICKLY PEAR CREEK	HEIGH BILLI G & HEIGH MARCI B	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-7	41I 89359 00	PRICKLY PEAR CREEK	BAUM BARBARA A & BAUM DAVID R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	376.99	GPM
POD-7	41I 89360 00	PRICKLY PEAR CREEK	HEIGH BILLI G & HEIGH MARCI B	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 89361 00	PRICKLY PEAR CREEK	BAUM BARBARA A & BAUM DAVID R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	421.87	GPM
POD-7	41I 89362 00	PRICKLY PEAR CREEK	MELANEY LINDA	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS
POD-7	41I 89533 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.5	CFS
POD-7	41I 89534 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89535 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	3.41	CFS
POD-7	41I 89588 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89589 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89590 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89591 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89592 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.5	CFS
POD-7	41I 89593 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS
POD-7	41I 89594 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.5	CFS

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-7	41I 89595 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS
POD-7	41I 89688 00	PRICKLY PEAR CREEK	ALLEN MARGOT L & ALLEN THOMAS J	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.31	CFS
POD-7	41I 124915 00	PRICKLY PEAR CREEK	HALEY JAMES C & HALEY KAREN L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	80.78	GPM
POD-7	41I 127790 00	PRICKLY PEAR CREEK	CENTENNIAL LIVESTOCK INC & NOVAK LEANNE & NOVAK PATRICK J & SCHENDEL MARILYN & SCHENDEL PETER & SCHMELTZER RENTALS LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	4.6	CFS
POD-7	41I 127793 00	PRICKLY PEAR CREEK	CENTENNIAL LIVESTOCK INC & NOVAK LEANNE & NOVAK PATRICK J & SCHENDEL MARILYN & SCHENDEL PETER & SCHMELTZER RENTALS LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	4.6	CFS
POD-7	41I 127794 00	PRICKLY PEAR CREEK	CENTENNIAL LIVESTOCK INC & NOVAK LEANNE & NOVAK PATRICK J & SCHENDEL MARILYN & SCHENDEL PETER & SCHMELTZER RENTALS LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.88	CFS
POD-7	41I 127795 00	PRICKLY PEAR CREEK	CENTENNIAL LIVESTOCK INC & NOVAK LEANNE & NOVAK PATRICK J & SCHENDEL MARILYN & SCHENDEL PETER & SCHMELTZER RENTALS LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 127796 00	PRICKLY PEAR CREEK	NOVAK LEANNE & NOVAK PATRICK J & SCHENDEL MARILYN & SCHENDEL PETER & SCHMELTZER RENTALS LLC & WILLIAMS ANNETTE K & WILLIAMS MARK A	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 143111 00	PRICKLY PEAR CREEK	MONSON LAURA E & SOUTHRIDGE PROPERTIES LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.45	CFS
POD-7	41I 193378 00	PRICKLY PEAR CREEK	LANNING CLAIRE I	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.9	CFS

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-7	41I 193379 00	PRICKLY PEAR CREEK	LANNING CLAIRE I	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.61	CFS
POD-7	41I 193379 02	PRICKLY PEAR CREEK	SHUTE CAROL S & SHUTE DAVID L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	150	GPM
POD-7	41I 193380 00	PRICKLY PEAR CREEK	FRANK KAREN & FRANK ROBERT J & HOLMAN EILEEN M & HOLMAN LARRY E & LANNING CLAIRE I & SHUTE CAROL S & SHUTE DAVID L	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 214024 00	PRICKLY PEAR CREEK	BIRKLAND MARILOU I & BIRKLAND ROBERT H	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	403.92	GPM
POD-7	41I 214244 00	PRICKLY PEAR CREEK	MONSON LAURA E & SOUTHRIDGE PROPERTIES LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	4.9	CFS
POD-7	41I 215637 00	PRICKLY PEAR CREEK	SOUTH DARYL D	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2	CFS
POD-7	41I 30027199	PRICKLY PEAR CREEK	CLINCH ROSE ELLEN	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	197.47	GPM
POD-7	41I 30027200	PRICKLY PEAR CREEK	CLINCH ROSE ELLEN	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	197.47	GPM
POD-7	41I 37804 00	PRICKLY PEAR CREEK	R & D PARTNERS LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.5	CFS
POD-7	41I 37805 00	PRICKLY PEAR CREEK	R & D PARTNERS LLC	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	273.77	GPM
POD-7	41I 38502 00	PRICKLY PEAR CREEK	BAHNY KATHERINE & BAHNY WILLIAM O & WEGNER ROBERTA A	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.31	CFS
POD-7	41I 40039 00	PRICKLY PEAR CREEK	DAVIS MARSHA S & DAVIS MICHAEL D & LUDTKE DOUGLAS & LUDTKE JULIE & SKINNER ANDY R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.5	CFS
POD-7	41I 40040 00	PRICKLY PEAR CREEK	LUDTKE DOUGLAS & LUDTKE JULIE & TOMASKIE BEVERLY & TOMASKIE JOHN	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	372.5	GPM
POD-7	41I 40041 00	PRICKLY PEAR CREEK	LUDTKE DOUGLAS & LUDTKE JULIE & TOMASKIE BEVERLY & TOMASKIE JOHN	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	4.6	CFS
POD-7	41I 40046 00	PRICKLY PEAR CREEK	DAVIS MARSHA S & DAVIS MICHAEL D & LUDTKE DOUGLAS & LUDTKE JULIE	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	7.5	CFS
POD-7	41I 40048 00	PRICKLY PEAR CREEK	DAVIS MARSHA S & DAVIS MICHAEL D & LUDTKE DOUGLAS & LUDTKE JULIE & TOMASKIE BEVERLY & TOMASKIE JOHN	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	5.0	CFS

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-7	41I 40049 00	PRICKLY PEAR CREEK	DAVIS MARSHA S & DAVIS MICHAEL D & LUDTKE DOUGLAS & LUDTKE JULIE	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	5.0	CFS
POD-7	41I 40050 00	PRICKLY PEAR CREEK	DAVIS MARSHA S & DAVIS MICHAEL D & LUDTKE DOUGLAS & LUDTKE JULIE	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	3.75	CFS
POD-7	41I 40052 00	PRICKLY PEAR CREEK	SILVER MAPLE RANCH% JOHN & SANDRA OITZINGER	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.5	CFS
POD-7	41I 40054 00	PRICKLY PEAR CREEK	SILVER MAPLE RANCH% JOHN & SANDRA OITZINGER	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	2.48	CFS
POD-7	41I 40559 00	PRICKLY PEAR CREEK	SCHLUTER MARK L & SCHLUTER PEGGY L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	421.87	GPM
POD-7	41I 40560 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS
POD-7	41I 40561 00	PRICKLY PEAR CREEK	SCHLUTER MARK L & SCHLUTER PEGGY L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 40562 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	376.99	GPM
POD-7	41I 40563 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 40564 00	PRICKLY PEAR CREEK	SCHLUTER MARK L & SCHLUTER PEGGY L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 40565 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	282.74	GPM
POD-7	41I 40566 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	376.99	GPM
POD-7	41I 40567 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS
POD-7	41I 40568 00	PRICKLY PEAR CREEK	SCHLUTER MARK L & SCHLUTER PEGGY L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	421.87	GPM
POD-7	41I 40570 00	PRICKLY PEAR CREEK	SCHLUTER MARK L & SCHLUTER PEGGY L	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 40571 00	PRICKLY PEAR CREEK	SCHLUTER MARK L & SCHLUTER PEGGY L	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 40572 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 40573 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 40574 00	PRICKLY PEAR CREEK	CLEMMENSEN CHERYL & CLEMMENSEN STANLEY	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 4098 00	PRICKLY PEAR CREEK	WILLIAMS JACK L	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.25	CFS

TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-7	41I 46176 00	PRICKLY PEAR CREEK	ANDERS, MARGARET A. TRUST & ANDERS, WILLIAM E. TRUST	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	1.0	CFS
POD-7	41I 88988 00	PRICKLY PEAR CREEK	BROWN DAVID J & BROWN MARGARET A	HEADGATE	10N/3W	25	SESENW	263600	414200	STOCK	NA	NA
POD-7	41I 89197 00	PRICKLY PEAR CREEK	CLINCH ARTHUR R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	197.47	GPM
POD-7	41I 89203 00	PRICKLY PEAR CREEK	CLINCH ARTHUR R	HEADGATE	10N/3W	25	SESENW	263600	414200	IRRIGATION	197.47	GPM
POD-8	41I 89806 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	STOCK	NA	NA
POD-8	41I 89807 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	1.5	CFS
POD-8	41I 89808 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	STOCK	NA	NA

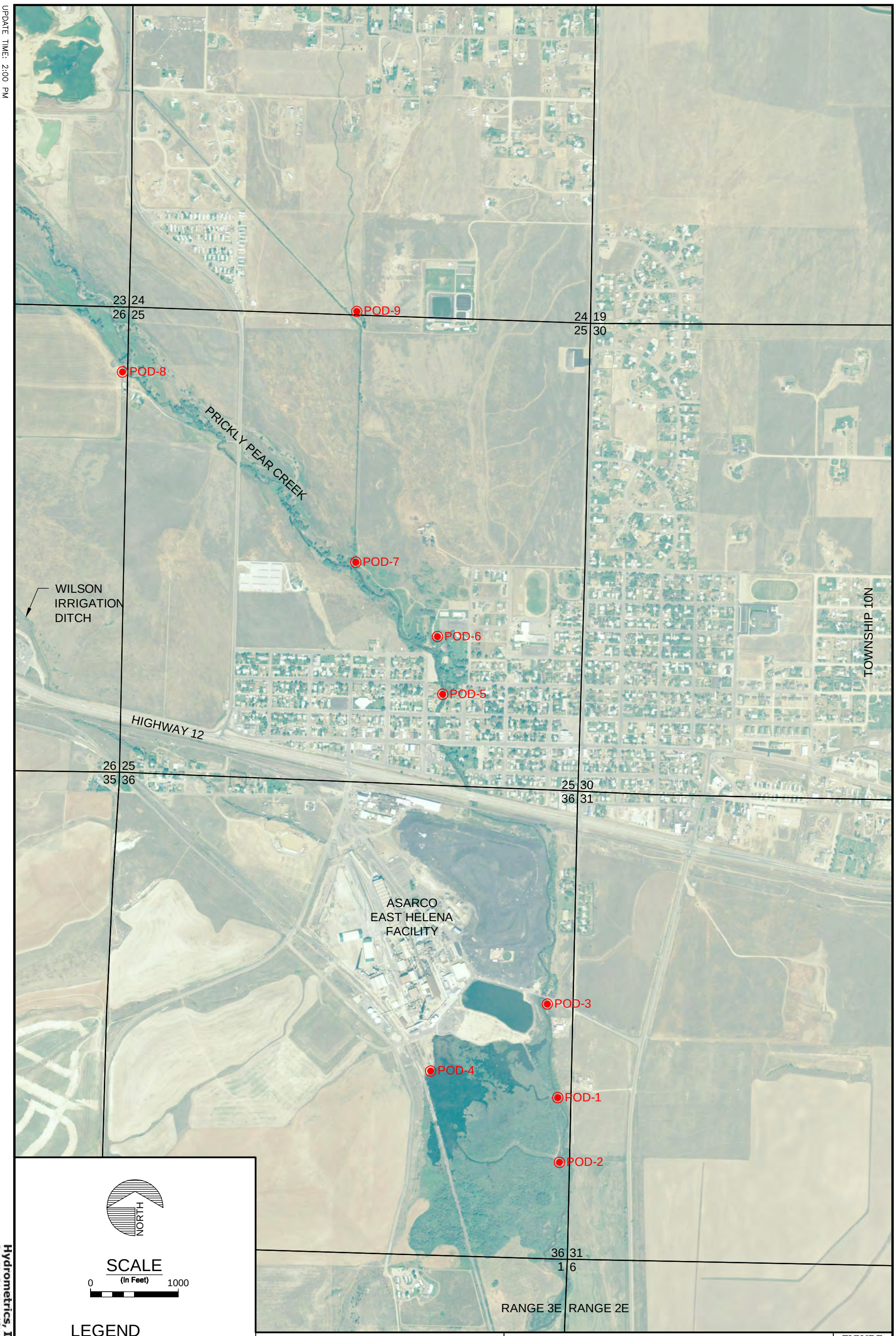
TABLE D-2. SURFACE WATER RIGHTS AND USE INVENTORY FOR THE ASARCO EAST HELENA FACILITY

Map ID Point of Diversion	Water Right #	Source Name	Permittee	Means of Diversion	Township/ Range	Section	1/4 1/4 1/4 Section	POD Coordinates		Use	Max Diversion Rate (Units)	
								Northing	Easting			
POD-8	41I 89809 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	224.4	GPM
POD-8	41I 89810 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	STOCK	NA	NA
POD-8	41I 89811 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	224.4	GPM
POD-8	41I 89812 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	1.5	CFS
POD-8	41I 89813 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	STOCK	NA	NA
POD-8	41I 89823 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	224.4	GPM
POD-8	41I 89824 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	1.5	CFS
POD-8	41I 89825 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	224.4	GPM
POD-8	41I 89826 00	PRICKLY PEAR CREEK	BURNHAM GARY L & PRICKLY PEAR SIMMENTAL RANCH INC % GARY BURNHAM	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	1.5	CFS
POD-8	41I 38489 00	PRICKLY PEAR CREEK	BOMPART VIRGINIA B	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	224.4	GPM
POD-8	41I 38490 00	PRICKLY PEAR CREEK	BOMPART VIRGINIA B	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	224.4	GPM
POD-8	41I 88969 00	PRICKLY PEAR CREEK	BOMPART VIRGINIA B	HEADGATE	10N/3W	25	NWNWNW	264200	413600	IRRIGATION	417.38	GPM
POD-9	41I 40044 00	WASTE & SEEPAGE, UNNAMED TRIBUTARY OF PRICKLY PEAR CREEK	DAVIS MARSHA S & DAVIS MICHAEL D & LUDTKE DOUGLAS & LUDTKE JULIE	HEADGATE	10N/3W	24	NWSWSE	264600	414400	IRRIGATION	2.5	CFS

1. Instream Points of Diversion not shown on map. Point of diversion assigned to entire stream reach in assigned section.

NA - Value for water right not assigned on Department of Natural Resources and Conservation database

TBD - Permittee owner name to be determined.



PHASE II RCRA FACILITY INVESTIGATION
SITE CHARACTERIZATION WORK PLAN
ASARCO EAST HELENA FACILITY

SURFACE WATER RIGHTS INVENTORY RESULTS

FIGURE
D-2

Hydrometrics, Inc.
Consulting Scientists and Engineers

UPDATE TIME: 2:00 PM
LTABORSKY\HEL\20090924\I:\LAND PROJECTS\105408\DWG\105408H031.DWG

Table 1
2008-2010 East Helena Facility
Summary of MDEQ-7 Groundwater Standard Exceedances
Monitoring Wells and Domestic/Private Wells

Parameter	DEQ-7 Groundwater Standard (mg/L)	Total # Samples	Total # Exceedances	% Exceedances	Exceedances in Offsite Wells?
antimony	0.006	1104	160	14.5%	yes
arsenic	0.01	1453	627	43.2%	yes
barium	1	1104	0	0.0%	NA
beryllium	0.004	1104	0	0.0%	NA
cadmium	0.005	1364	124	9.1%	no
chromium	0.1	1104	0	0.0%	NA
copper	1.3	1342	0	0.0%	NA
iron	0.3 (guidance)	1364	218	16.0%	no
lead	0.015	1364	17	1.2%	no
manganese	0.05 (guidance)	1364	427	31.3%	yes
mercury	0.002	1103	0	0.0%	NA
nickel	0.1	1104	0	0.0%	NA
selenium	0.05	1442	337	23.4%	yes
silver	0.1	1104	0	0.0%	NA
thallium	0.002	1104	86	7.8%	no
zinc	2	1342	38	2.8%	no

Notes:

Data extracted from East Helena EnviroData database on 12/21/2010.

Calculations based on dissolved metals results only.

Field duplicate results excluded from calculations.

NA = not applicable

Table obtained from Hydrometrics, Inc.: 2008-2010_exceedance_summary.xls