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Table 1-1 Smith Ranch Required Permits

Permit or License	Regulatory Agency*	Status
Source Material License SUA-1548	NRC	Approved
Permit to Mine No. 633 and 603	WDEQ/LQD	Approved
License to MIne	WDEQ/LQD	Approved
Drilling Notification No. 236	WDEQ/LQD	Approved
Public Water Supply	WDEQ/WQD, EPA	Approved
Operational Storm Water Discharge Permit	WDEQ/WQD	Approved
UIC Aquifer Exemption	WDEQ/LQD, EPA	Approved
Radio Communications Permit	FCC	Approved
Transport License/Permit	DOT	Approved
UIC Class I Injection Wells (10)	WDEQ/WQD	Approved (8 are operational and 2 to be drilled)
Domestic Sewage (7 permits)	Converse County and/or WDEQ/WQD	Approved (Highland Uranium Project CPF and Satellite No. 1 inactive)
Air Quality (2 permits)	WDEQ/AQD	Approved (Highland Uranium Project permit inactive)
Ground Water Appropriation (Numerous Block and Water Well Permits)	WSEO	Approved
Domestic Landfill	WDEQ/SHWD	Approved
CPP Storage Ponds	WSEO/WDEQ/WQD	Approved
Satellite No. 1 Radium Settling Basins	WSEO/WDEQ/WQD	Approved (inactive)
Satellite No. 1 PSR	WSEO/WDEQ/WQD	Approved (inactive)
Satellite No. 1 Land Application 1A & 1B	WDEQ/WQD	Approved (inactive)
PSR-2	WDEQ/WQD	Approved
PSR-2 Land Application	WDEQ/WQD	Approved
County Development	Converse County	Approved

***Note:**
NRC = US Nuclear Regulatory Commission
WDEQ = Wyoming Department of Environmental Quality
LQD = Land Quality Division
WQD = Water Quality Division
AQD = Air Quality Division
EPA = US Environmental Protection Agency
FCC – Federal Communications Commission
DOT = US Department of Transportation
WSEO = Wyoming State Engineer's Office
SHWD = Solid and Hazardous Waste Division

Table 1-2 North Butte Required Permits

Permit or License	Regulatory Agency*	Status
Source Material License SUA-1548	NRC	Amendment received – Operating Plan update to be prepared and submitted with SUA-1548 renewal
Permit to Mine	WDEQ/LQD	Permit received – Permit update submitted
License to Mine	WDEQ/LQD	License received – To be updated with permit update
Aquifer Exemption	WDEQ/LQD, EPA	Exemption received
UIC Deep Disposal Well	WDEQ/WQD	Approved – amendment due 2012
Surge Pond	WDEQ/WQD, WSEO	To be prepared
Class III Well Permit	WSEO	Ongoing
Air Quality Permit	WDEQ/AQD	To be prepared
Domestic Sewage	WDEQ/WQD	To be prepared
Storm Water Discharge	WDEQ/WQD	Construction permit received
County Development	Campbell County Planning Commission	To be prepared
Radio Communications	FCC	Permit received

***Note:**
NRC = US Nuclear Regulatory Commission
WDEQ = Wyoming Department of Environmental Quality
LQD = Land Quality Division
WQD = Water Quality Division
EPA = US Environmental Protection Agency
FCC – Federal Communications Commission
WSEO = Wyoming State Engineer's Office

Table 1-3 Gas Hills Required Permits

Permit or License	Regulatory Agency*	Status
Source Material License SUA-1548	NRC	Amendment received – Operating Plan update to be prepared and submitted with SUA-1548 renewal
Permit to Mine	WDEQ/LQD	Permit received – Permit update submitted
License to Mine	WDEQ/LQD	License received – To be updated with permit update
Aquifer Exemption	WDEQ/LQD, EPA	Exemption received
UIC Class V – Permit for 2 Test Wells	WDEQ/WQD	Permit received
UIC Class I Permit for 2 Deep Disposal Wells	WDEQ/WQD	To be prepared
Evaporation pond	WDEQ/LQD, WQD, WSEO	To be prepared
Surface Discharge	WDEQ/WQD	To be prepared
Groundwater Appropriation	WSEO	To be prepared
Public Water Supply	WSEO, EPA	To be prepared
Air Quality Permit (Construction and Operations for fugitive dust and particulates)	WDEQ/AQD	To be prepared
Domestic Sewage	WDEQ/WQD	To be prepared
Stormwater Discharge (Construction and Operational)	WDEQ/WQD	Construction permit approved
County Development	Natrona and Freemont Counties Planning Commissions	To be prepared
Radio Communications	FCC	Permit received
Plan of Operations	BLM	Pending approval

***Note:**
NRC = US Nuclear Regulatory Commission
WDEQ = Wyoming Department of Environmental Quality
LQD = Land Quality Division
WQD = Water Quality Division
AQD = Air Quality Division
EPA = US Environmental Protection Agency
FCC – Federal Communications Commission
WSEO = Wyoming State Engineer's Office
BLM = US Bureau of Land Management

Table 1-4 Ruth Required Permits

Permit or License	Regulatory Agency*	Status
Source Material License SUA-1548	NRC	Amendment received – Operating Plan update to be prepared and submitted with SUA-1548 renewal
Permit to Mine	WDEQ/LQD	Permit received – Permit update required
License to Mine	WDEQ/LQD	License received – To be updated with permit update
Aquifer Exemption	WDEQ/LQD, EPA	Exemption received
UIC Class I Permit for Deep Disposal Wells	WDEQ/WQD	To be prepared
Evaporation pond	WDEQ/LQD, WQD, WSEO	To be prepared
Surface Discharge	WDEQ/WQD	To be prepared
Groundwater Appropriation	WSEO	To be prepared
Public Water Supply	WSEO, EPA	To be prepared
Air Quality Permit (Construction and Operations for fugitive dust and particulates)	WDEQ/AQD	To be prepared
Domestic Sewage	WDEQ/WQD	To be prepared
Stormwater Discharge (Construction and Operational)	WDEQ/WQD	To be prepared
County Development	Johnson County Planning Commission	To be prepared
Radio Communications	FCC	To be prepared
Plan of Operations	BLM	To be prepared

***Note:**
NRC = US Nuclear Regulatory Commission
WDEQ = Wyoming Department of Environmental Quality
LQD = Land Quality Division
WQD = Water Quality Division
AQD = Air Quality Division
EPA = US Environmental Protection Agency
FCC – Federal Communications Commission
WSEO = Wyoming State Engineer's Office
BLM = US Bureau of Land Management

Table 1-5, Agency Consultations*

Facility	Agency Consulted	Date	Content
Smith Ranch/Highland and Reynolds	US Army Corps of Engineers	April 8, 2011	Review of survey protocol for aquatic resource inventory.
Smith Ranch/Highland and Reynolds	Wyoming Game and Fish Department	April 15, 2011	Species of concern list; review of draft wildlife and vegetation survey plans.
Smith Ranch/Highland	Wyoming Game and Fish Department	June 3, 2010	Review of the Combined Permit.
Smith Ranch/Highland	US Fish and Wildlife Service	June 23, 2010	Review of the Combined Permit.
Reynolds	US Fish and Wildlife Service	December 20, 2007	Information on threatened and endangered species, migratory birds, and wetlands.
Reynolds	US Fish and Wildlife Service	July 20, 2009	Review of Reynolds amendment to Permit 633.
North Butte	Wyoming State Historic Preservation Office	November 5, 2010	Review of project report.
North Butte	Wyoming Game and Fish Department	December 17, 2010	List of recommended wildlife surveys.
North Butte	US Fish and Wildlife Service	August 19, 2010	Presence of threatened and endangered species; protective measures for migratory birds.
North Butte	US Army Corps of Engineers	January 24, 2011	Verification of wetland delineation.
Gas Hills	Wyoming Game and Fish Department	October 29, 2008	Review of BLM Environmental Assessment.
Gas Hills	US Bureau of Land Management	April 6, 2010	Approval of Wildlife Plan (email) incorporating Wyoming Game and Fish Department comments.
Gas Hills	US Army Corps of Engineers	October 30, 1998	Recommendations for avoidance of wetlands.
Gas Hills	Wyoming Game and Fish Department	October 14, 1996	Comments on Wildlife Appendix of the WDEQ Permit to Mine.
Gas Hills	Wyoming Game and Fish Department	May 13, 1999	Wildlife baseline data requirements.
Gas Hills	US Bureau of Land Management	May 1, 2007	Record of site visit and recommendation for archeological clearance.
Gas Hills	Wyoming State Historic Preservation Office	August 23, 2000	Determination of site eligibility and recommendations.
Gas Hills	Wyoming State Historic Preservation Office	August 17, 2000	Determination of site eligibility and recommendations.
Gas Hills	US Bureau of Land Management	January 21, 1993	Review of archeological report.
*No agency consultations were located for Ruth			

Table 2-1 Major Uranium Recovery Licensing Applications

Company	Site Under Consideration	Design	Estimated Application Date	Date Accepted	State	Status	Letter of Intent
Fiscal 2007 Applications							
Uranium One	Willow Creek	ISR – Restart	Received April 2007		WY	Completed 9/08	None
Cameco (Crow Butte Resources)	North Trend	ISR – Expansion	Received June 2007	08/28/2007	NE	Tech Review Ongoing	None
Cameco (Crow Butte Resources)	Plant Upgrade	ISR – Expansion	Received Oct 2006		NE	Completed 12/07	None
Fiscal 2008 Applications							
Lost Creek ISR, LLC	Lost Creek	ISR – New	Resubmitted Mar 2008	06/10/2008	WY	Completed 8/17/11	*05/23/07*
Uranerz Energy Corp.	Hank and Nichols	ISR – New	Received December 2007	04/14/2008	WY	Completed 7/19/11	*06/27/07*
Uranium One	Moore Ranch	ISR – New	Received October 2007	12/20/2007	WY	Completed 9/30/10	*05/31/07*
Fiscal 2009 Applications							
Powertech Uranium Corporation	Dewey Burdock	ISR – New	Resubmitted 8/09	Oct-09	SD	RAI Responses	*01/26/07*
Fiscal 2010 Applications							
Fiscal 2011 Applications							
Strata Energy, Inc.	Ross	ISR - NEW	Rec. January 2011	Jun-11	WY	Tech Review Ongoing	*01/08/10*
Fiscal 2012 Applications							
Lost Creek ISR, LLC	Lost Creek	ISR – Expansion	Oct-11		WY		*01/06/10*
Cameco (Crow Butte Resources)	Marsland	ISR – Expansion	Oct-11		NE		*11/09/10*
Cameco (Power Resources, Inc.)	Smith Ranch/Highland CPP	ISR – Expansion	Dec-11		WY		*01/14/10*
Uranium One	Allemand-Ross	ISR – Expansion	Dec-11		WY		*10/08/10*
AUC LLC	Reno Creek	ISR – New	Jan-12		WY	Pre-Sub Audit 11/11	*11/03/10*
Titan Uranium USA, Inc.	Sheep Mountain	Heap Leach – New	Jan-12		WY	Pre-Sub Audit/10/11	*11/11/10*
UR-Energy Corp.	Lost Soldier	ISR – Expansion	Mar-12		WY		*11/01/10*
Neutron Energy	Juan Tafoya	Conv. – New	Jun-12		NM		*11/16/10*
The Bootheel Project LLC	Bootheel	ISR-New (Satellite)	Jul-12		WY		*08/09/10*
Strathmore Minerals Corporation	Gas Hills	Conv. – New	Sep-12		WY		*11/19/10*
Strathmore Minerals Corporation	Roca Honda	Conv. – New	Sep-12		NM		*11/19/10*
Uranium Company of Nevada, LLC	Apex Mill	Conv. – New	Sep-12		NV		*11/11/10*
Rio Grande Resources	Mt. Taylor	Conv. – New	TBD		NM		*11/10/10*
Uranium One	Ludeman	ISR – New	Withdrawn, Resubmit 10/11		WY		*10/08/10*
Fiscal 2013 Applications							
Cameco (Power Resources, Inc.)	Ruby Ranch	ISR – Expansion	FY 2013		WY		*01/14/10*
Uranerz Energy Corp.	Jane Dough	ISR – Expansion	Nov-12		WY		*10/07/11*
Cameco (Crow Butte Resources)	Three Crow	ISR – Expansion	Rec.08/10, Resubmit FY 13		NE	Review Deferred	*01/11/10*
Uranium One	Jab and Antelope	ISR – New	Rec. 07/08, Resume FY 13	Mar-09	WY	Review Deferred	*05/31/07*
Wildhorse Energy	West Alkali Creek	ISR – New	TBD		WY		*01/07/10*
Uranium Energy Corporation	Grants Ridge	Heap Leach – New	TBD		NM		*01/15/10*
Other Major Licensing Actions							
Cameco (Crow Butte Resources)	Crawford, NE	ISR – Lic. Renew.	Received Dec. 2007		NE	Draft License Issued	
Uranium One	Willow Creek	ISR – Lic. Renew.	Received May 2008		WY	Tech Review Ongoing	
Cameco (Power Resources, Inc.)	Smith Ranch/Highland	ISR – Lic. Renew.	Received 08/2010		WY	Pre-Sub Audit Comp.	
Hydro Resources, Inc.	Crownpoint	ISR – Lic. Renew.	Rec. 8/02, on hold until 2011		NM		
Cameco (Power Resources, Inc.)	North Butte	ISR – Ops Plan	Jan-12		WY		*09/09/10*
Cameco (Power Resources, Inc.)	Gas Hills	ISR – Ops Plan	Jan-12		WY		*09/09/10*
Cameco (Power Resources, Inc.)	Ruth	ISR – Ops Plan	Jun-13		WY		*09/09/10*
					No. of New Facility Applications =	**16**	
					No. of Restart/Expansion Applications -	**12**	
					No. of Other Actions	**7**	
					Total No. of Licensing Actions	**35**	

ISR = In Situ Recovery Facility
TBD – To Be Determined
Conv = Conventional Uranium Mill
FY – Fiscal Year

Table 2-2 Wyoming Powder River Basin Coal Development by Subregion

Subregion	Annual Production for Most Recent Report Year (million tons)	Cumulative Disturbed Area for Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Available for Reclamation Through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Unavailable for Reclamation through Most Recent Report Year (acres)	Total Employment for Report Year	Annual Water Consumption (mm gpy)	Actual Water Production (acre-feet)
Lower Production Scenario								
Subregion 2	77	21,249	6,783	6,107	8,359	861	544	447
Subregion 3	232	35,498	11,401	13,992	10,105	3,090	1,709	748
Total for 2003 Actual	**309**	**56,747**	**18,184**	**20,099**	**18,464**	**3,951**	**2,253**	**1,195**
Subregion 2	100	23,630	6,441	12,353	9,273	1,424	544	447
Subregion 3	250	45,542	15,785	31,577	11,941	3,077	1,709	748
Total for 2007 Actual	**350**	**69,172**	**22,226**	**43,930**	**21,214**	**4,501**	**2,253**	**1,195**
Subregion 2	95	28,021	12,183	6,830	9,008	1,323	50	675
Subregion 3	254	55,410	27,751	16,588	11,070	3,153	1,115	1,419
Total for 2010	**349**	**83,431**	**39,934**	**23,418**	**20,078**	**4,476**	**1,165**	**2,094**
Subregion 2	112	32,356	15,683	7,314	9,359	1,369	458	675
Subregion 3	281	67,423	38,851	16,983	11,589	3,186	1,277	1,419
Total for 2015	**393**	**99,779**	**54,534**	**24,297**	**20,948**	**4,555**	**1,735**	**2,094**
Subregion 2	126	36,994	19,683	7,589	9,723	1,476	72	675
Subregion 3	291	80,720	51,351	17,243	12,124	3,215	1,334	1,419
Total for 2020	**417**	**117,714**	**71,034**	**24,832**	**21,847**	**4,691**	**1,406**	**2,094**
Upper Production Scenario								
Subregion 2	77	21,249	6,783	6,107	8,359	861	544	447
Subregion 3	232	35,498	11,401	13,992	10,105	3,090	1,709	748
Total for 2003 Actual	**309**	**56,747**	**18,184**	**20,099**	**18,464**	**3,951**	**2,253**	**1,195**
Subregion 2	100	23,630	6,441	12,353	9,273	1,424	544	447
Subregion 3	250	45,542	15,785	31,577	11,941	3,077	1,709	748
Total for 2007 Actual	**350**	**69,172**	**22,226**	**43,930**	**21,214**	**4,501**	**2,253**	**1,195**
Subregion 2	117	29,279	13,416	7,536	8,328	1,375	58	675
Subregion 3	284	57,258	27,951	18,236	11,070	3,153	1,184	1,419
Total for 2010	**401**	**86,537**	**41,367**	**25,772**	**19,398**	**4,528**	**1,242**	**2,094**
Subregion 2	138	35,624	18,616	8,248	8,760	1,431	75	675
Subregion 3	301	70,431	39,451	19,391	11,589	3,186	1,333	1,419
Total for 2015	**439**	**106,055**	**58,067**	**27,639**	**20,349**	**4,617**	**1,408**	**2,094**
Subregion 2	148	42,981	25,016	8,758	9,206	1,444	86	675
Subregion 3	307	84,797	51,651	21,021	12,124	3,215	1,437	1,419
Total for 2020	**455**	**127,778**	**76,667**	**29,779**	**21,330**	**4,659**	**1,523**	**2,094**

Table 2-3 Projection of Conventional Oil and Gas Activity

Wells and Production	Actual		Projected		
	2003	2007	2010	2015	2020
Annual Gas Production (BCF)	39.9	22.0	42.7	39.0	35.1
Annual Oil Production (million barrels)	12.9	11.4	15.7	14.3	12.9
Active Wells	5,067[1]	3,857[2]	6,503	5,115	4,625
Inactive Wells	1,994	0[3]	954	563	332

Notes:

1. The total includes approximately 1,500 seasonally active wells
2. The total includes approximately 1,500 seasonally active wells and an unknown number of inactive wells.
3. Unknown.

Table 2-4 Projection of Coal Bed Methane Activity

Wells and Production	Actual		Projections		
	2003	2007	2010	2015	2020
Annual Production (BCF)	338	432	708	1,005	1,026
Active Wells	14,758	20,408	31,943	42,980	42,108

Table 2-5 Powder River Basin Livestock Grazing - 2007

	Converse County	Campbell County	Johnson County
Cattle and Calves	52,072	76,835	45,534
Sheep and Lambs	68,065	31,792	31,505
Horses and Ponies	2,108	4,427	3,060
Source: NASS 2007 Census of Agriculture			

Table 2-6 Wind River Basin Livestock Grazing - 2007

	Freemont County	Natrona County
Cattle and Calves	96,758	54,575
Sheep and Lambs	22,793	39,412
Horses and Ponies	12,857	2,978
Source: NASS 2007 Census of Agriculture		

Table 2-7 Predicted Environmental Impacts

Impacts of Operation	No-Action Alternative	Proposed Action	Alternative Action (Conventional Open Pit or Underground Mining)
Land Use	Any existing land use impacts associated with operations at Smith Ranch will be reclaimed and returned to pre-ISR conditions.	Loss of agricultural production (grazing) in the impacted area for the life of the mine or mine unit. Acreage taken out of livestock production is limited.	Compared to the preferred alternative, conventional open pit mining would increase the acreage of disturbance by a factor of 100. Grazing would be restricted. Conventional underground mining would result in an increase in land disturbance over ISR operations, but not as significant as conventional open pit mining. The entire mine site can be returned to its original land use more rapidly with ISR mining methods than those of underground or open pit mining methods.
Transportation	Any existing transportation impacts associated with SUA-1548 will begin to taper as operations cease and reclamation progresses.	Minimal impacts predicted compared to current traffic levels. Predicted increase on traffic on regional roads is generally less than 5%.	Additional staff and machinery are required for the operation of conventional open pit or underground mining as compared to the proposed action. For an equivalent conventional operation, one might anticipate two to three times the impact on roads that one would see with an ISR operation.
Geology and Soils	None.	Minimal geologic impacts are expected because ISR does not remove formation material from the aquifer, no subsidence or matrix compression is anticipated. The principal impact to soils under SUA-1548 will be from earthmoving activities associated with construction of ISR facilities. Most soil disturbances are short term. Topsoil and land recovery is initiated as soon as possible following construction.	Geologic impacts associated with conventional underground or open pit mining are more severe than ISR mining in that they both remove the rock matrix and structure where the uranium is located. Reclamation and restoration of soils for conventional underground or open pit mining also takes a longer time than ISR mining since ISR mining methods can reclaim and restore soil disturbances.
Water Resources	Any existing water resource impacts associated with operations at Smith Ranch will begin to taper as restoration objectives are achieved.	No surface water impacts. A limited quantity of groundwater is consumed during ISR production and restoration. Groundwater quality is affected within the Aquifer Exemption area. These impacts are temporary and the aquifer will be restored following the completion of uranium recovery.	Both open pit and underground mining affect groundwater by commingling aquifers that were discretely separated by confining layers. A large volume of groundwater is consumed by dewatering (and discharged to the surface) during conventional mining. Groundwater quality can be affected following water table recovery as redox conditions change and additional constituents go into dissolution.
Ecological Resources	None.	Temporary loss and/or disruption of wildlife usage and vegetation production during well field construction. Impacts are short term. Wildlife friendly fencing will allow wildlife usage of well field areas. No substantial impairment of ecological stability or species diversity.	Adverse impacts to both vegetation and wildlife resources are directly related to the degree of disturbance to the land surface. Compared to the preferred alternative, conventional open pit mining would increase the acreage of disturbance by a factor of 100. Conventional underground mining would result in an increase in land disturbance over ISR operations, but not as significant as conventional open pit mining.
Air Quality	Any existing air quality impacts associated with SUA-1548 will begin to taper as operations cease and reclamation progresses.	Minimal increase in total dust emissions from construction activities and vehicle traffic on gravel roads. Fugitive dust at each location covered under SUA-1548 is expected to be less than 200 tons per year.	Air quality impacts relate to the size and nature of the construction disturbance. In addition to the significantly larger disturbed land footprint, the nature of conventional mining will result in large out-of-pit stockpiles and tailings.
Noise	Any existing noise impacts associated with SUA-1548 will begin to taper as operations cease and reclamation progresses.	Noise impacts will be barely perceptible over background levels.	Noise impacts relate to the size and nature of the construction disturbance. In addition to the significantly larger disturbed land footprint, the nature of conventional mining will result in larger mobile equipment including dozers, scrapers, loaders, haul trucks, and draglines. Noise impacts of conventional mining are significantly greater than that from ISR.

Table 2-7 Predicted Environmental Impacts

Impacts of Operation	No-Action Alternative	Proposed Action	Alternative Action (Conventional Open Pit or Underground Mining)
Historic and Cultural Resources	None.	None.	Increases in ground disturbance significantly increase the risk of adverse impacts to historical and cultural resources over the proposed action. Compared to the preferred alternative, conventional open pit mining would increase the acreage of disturbance by a factor of 100. Conventional underground mining would result in an increase in land disturbance over ISR operations, but not as significant as conventional open pit mining.
Visual and Scenic Resources	Any existing visual resource impacts associated with SUA-1548 will begin to taper as operations cease and reclamation progresses.	The temporary and short-term visual effects occur during the construction phase of well field development. Long-term visual resource impacts from industrial buildings will be minimal.	Open pits and tailings piles left by mining significantly change the landscape as compared to the proposed action.
Socioeconomic	Direct and indirect economic benefit provided by SUA-1548 will begin to taper as operations cease and reclamation progresses.	The purchasing of goods and services, taxes paid and direct payments will benefit local and regional communities. It is anticipated that the overall socioeconomic effect of the SUA-1548 Project on the surrounding counties and the state as a whole would be beneficial.	This requires more labor than the proposed action, increasing the number of jobs available. The quality of the ore mined must be higher and there is a higher capital investment and lead time.
Public and Occupational Health	Any existing public and occupational health impacts associated with SUA-1548 will begin to taper as operations cease and reclamation progresses.	In-situ mining activities under SUA-1548 pose a low risk to public and occupational health. To ensure risk levels from non-radiological and radiological impacts remain low, Cameco has instituted standard operating procedures for handling, processing, storing, transporting or disposing of potentially hazardous materials.	Radiation exposure at an ISR operation is significantly less than that associated with conventional mining and milling. Operating personnel are not exposed to the radionuclides present in and emanating from the ore and tailings. Conventional mill tailings can contain all of the radium-226 originally present in the ore, whereas ISR operations may have less than 5% of the radium in the ore zone being brought to the surface through the recovery process.
Waste Management	Any existing waste management impacts associated with SUA-1548 will begin to taper as operations cease and reclamation progresses.	ISR facilities produce airborne effluents, liquid and solid wastes that must be properly handled and disposed of. All ongoing and future ISR operations covered under SUA-1548 will continue to properly transport, treat and dispose of liquid wastes and by so doing, reduce the impacts of waste generation.	The waste management impacts associated with underground or conventional open pit uranium mining are significantly greater than those associated with the proposed ISR activity. Large quantities of radiological solid wastes, or tailings, are generated at a conventional mine. These wastes are generally disposed into a conventional tailings pond, in-pit disposal facility and evaporation ponds, or a conventional heap leach or IX facility.

Table 3.1-1 Regional Ownership

Owner	Acreage	Percentage
Smith Ranch, Highland and Reynolds Ranch		
Bureau of Land Management	488,073	10
State of Wyoming	473,487	10
Private	3,477,948	70
Department of Defense	9,351	0.2
Bankhead Jones	164,594	3
US Forest Service	228,448	5
Bureau of Reclamation	108,244	2
North Butte		
Bureau of Land Management	783,722	16
State of Wyoming	374,248	8
Private	3,526,181	71
Department of Defense	9,351	0.2
Bankhead Jones	144,067	3
US Forest Service	126,311	3
Gas Hills		
Bureau of Land Management	3,159,444	63
State of Wyoming	438,724	9
Private	1,257,928	25
US Fish and Wildlife Service	13,420	0.3
Bureau of Indian Affairs	141,215	3
Ruth		
Bureau of Land Management	953,458	19
State of Wyoming	397,488	8
Private	3,408,365	67
US Fish and Wildlife Service	221,104	4
Department of Defense	9,351	0.2
Bankhead Jones	116,862	2
Wyoming Game and Fish	5,590	0.1

Table 3.4-1 Reynolds Ranch Surface Water Quality Data

Sample Name	Sample Date	Radiometrics Dissolved (pCi/L)					Radiometrics Suspended (pCi/L)				
		Lead-210 (210Pb)	Uranium (mg/L) (NatU)	Radium-226 (226Ra)	Thorium-230 (230Th)	Polonium-210 (210Po)	Lead-210 (210Pb)	Uranium (mg/L) (NatU)	Radium-226 (226Ra)	Thorium-230 (230Th)	Polonium-210 (210Po)
Spring #1	8/17/2011	2.30	0.170	0.80	<0.2	<1	<1	0.0055	0.60	<0.2	<1
Windmill Impoundment	8/17/2011	2.20	0.111	0.30	230.0	<1	<1	<0.0003	1.40	<0.2	<1
White Rock Springs	8/18/2011	2.40	0.043	0.30	<0.2	<1	<1	<0.0003	<0.2	<0.2	<1
Impoundment #6	8/18/2011	<1	0.012	<0.2	<0.2	<1	1.40	0.0006	0.20	<0.2	<1
n =		3	4	3	1	0	1	2	3	0	0
Average		2.30	0.084	0.47	230	<1	1.40	0.0031	0.73	<0.2	<1
Standard Deviation		0.10	0.071	0.29	-	-	-	0.0035	0.61	-	-
Minimum		2.20	0.012	0.30	230	<1	1.40	0.0006	0.20	<0.2	<1
Maximum		2.40	0.170	0.8	230	<1	1.40	0.0055	1.40	<0.2	<1

Table 3.4-2 Reynolds Ranch Sediment Quality Data

Sample Name	Sample Date	Radiometrics Totals (pCi/g-dry)			
		Uranium (NatU)	Lead-210 (210Pb)	Radium-226 (226Ra)	Thorium-230 (230Th)
Impoundment #2	8/17/2011	0.60	4.3	15.3	0.6
Impoundment #6	8/18/2011	0.60	6.4	0.8	0.4
Sediment #1	8/17/2011	1.00	0.8	0.4	<0.2
Sediment #2	8/17/2011	0.90	1.2	1.4	0.7
Sediment #3	8/17/2011	0.80	1.9	0.9	0.5
Sediment #4	8/17/2011	3.00	6.2	2.7	1.5
Sediment #5	8/17/2011	0.60	2.4	1.3	0.8
Sediment #6	8/18/2011	0.70	1.4	1.5	0.4
Sediment #7	8/18/2011	4.10	3.3	4.8	4.0
Sediment #9	8/18/2011	1.30	3.2	1.2	0.4
Sediment #10	8/18/2011	2.20	3.6	2.4	2.2
Sediment #10	8/18/2011	3.10	1.8	1.7	0.4
Sediment #11	8/18/2011	1.00	1.8	1.6	1.1
Sediment #12	8/17/2011	1.60	5.7	27.7	1.3
Sediment #14	8/17/2011	0.80	1.9	2.0	0.8
Sediment #15	8/17/2011	0.70	2.2	1.7	1.4
Sediment #16	8/17/2011	0.50	5.4	0.8	0.7
Sediment #16	8/17/2011	0.60	1.5	1.7	0.8
Sediment #17	8/17/2011	0.40	1.2	1.0	0.7
Sediment #18	8/17/2011	1.10	2.1	1.0	0.7
Sediment #19	8/17/2011	0.40	1.2	0.7	0.3
Sediment #20	8/17/2011	0.80	4.6	0.9	1.1
Sediment #21	8/18/2011	0.90	2.2	1.4	1.1
Sediment #22	8/18/2011	3.40	3.4	1.1	0.4
Sediment #23	8/18/2011	0.50	1.5	1.3	0.8
Sediment #24	8/18/2011	0.50	1.5	1.1	1.1
Sediment #25	8/18/2011	1.00	3.0	1.5	1.4
Sediment #26	8/18/2011	0.50	1.1	0.8	0.3
Spring #1	8/17/2011	3.10	2.5	1.2	0.3
White Rock Springs	8/18/2011	1.00	1.1	1.2	0.5
Windmill Impoundment	8/17/2011	2.70	1.9	1.6	1.1
n =		31	31	31	30
Average		1.3	2.7	2.7	0.9
Standard Deviation		1.0	1.6	5.3	0.7
Minimum		0.4	0.8	0.4	0.3
Maximum		4.1	6.4	27.7	4.0

Table 3.4-3 Surface Water Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Source Name	Longitude	Latitude
P10045.0R	07/20/1994	Complete	Satellite No. 2 Purge Storage	FLO; IND; TEM	036N	073W	12	SW1/4SW1/4	Bob Draw	-105.573781	43.102558
P1007.0S	12/09/1954	Complete	Ridgeway No. 1 Stock Reservoir	STO	036N	073W	26	SE1/4NE1/4	Ridgeway Draw	-105.577756	43.0651
P10398.0S	06/13/1988	Unadjudicated	AML 15-II Site 30 Stock Reservoir	STO	037N	073W	16	SW1/4NE1/4	Solar Draw	-105.627802	43.181019
P10429.0S	07/22/1988	Fully Adjudicated	Dave Johnston Mine SP-8 Stock Reservoir	STO	036N	075W	34	NW1/4SW1/4	North Platte River	-105.847697	43.046163
P10431.0S	07/22/1988	Fully Adjudicated	Dave Johnston Mine SP-17 Stock Reservoir	STO	035N	075W	11	SW1/4NW1/4	North Platte River	-105.827564	43.02115
P10434.0S	08/01/1988	Unadjudicated	Betty Lou Stock Reservoir	STO	037N	073W	09	SE1/4SE1/4	Betty Lou Draw	-105.622831	43.188248
P1322.0S	12/16/1955	Complete	Lehman #1 Stock Reservoir	STO	035N	073W	05	SE1/4NW1/4	Lehman Draw	-105.646719	43.035839
P1456.0S	07/09/1956	Complete	Layton Pit No. 1 Stock Reservoir	STO	034N	074W	02	NE1/4NE1/4	Layton Draw	-105.6949	42.952039
P1562.0S	09/17/1956	Complete	Bobby #1 Stock Reservoir	STO	036N	072W	15	SE1/4SW1/4	Bobby Draw	-105.487806	43.087833
P1615.0S	10/22/1956	Complete	Whipple #1 Stock Reservoir	STO	036N	073W	14	SW1/4NW1/4	Whipple Draw	-105.592506	43.09415
P1616.0S	10/22/1956	Complete	Stratton #1 Stock Reservoir	STO	036N	072W	06	SE1/4NW1/4	Stratton Draw	-105.546833	43.123611
P1632.0S	10/25/1956	Complete	Mart #1 Stock Reservoir	STO	036N	073W	34	NE1/4SE1/4	Marts Draw	-105.597506	43.046772
P16808.0D	04/28/1924	Fully Adjudicated	Harland Ditch	IRR	037N	074W	11	SW1/4NE1/4	Brown Springs Creek	-105.707114	43.194948
P17330.0D	01/28/1928	Unadjudicated	Judson No. 2 Ditch	IRR	037N	074W	33	SE1/4SE1/4	Brown Springs Creek	-105.740561	43.130329
P17548.0S	12/27/2005	Unadjudicated	Dave Johnston Mine SP-38 Stock Reservoir	STO	035N	075W	24	SE1/4NW1/4	SP-38 Draw	-105.802731	42.99185
P17549.0S	12/27/2005	Complete	Dave Johnston Mine SP-19 Stock Reservoir	STO	035N	075W	11	NE1/4SW1/4	East Fork Sand Creek (South)	-105.822581	43.01755
P17550.0S	12/27/2005	Unadjudicated	Dave Johnston Mine SP-18 Stock Reservoir	STO	035N	075W	11	NE1/4SW1/4	SP-18 Draw	-105.822581	43.01755
P17551.0S	12/27/2005	Complete	Dave Johnston Mine SP-1 Stock Reservoir	STO	035N	075W	03	NE1/4SW1/4	Bishop Draw	-105.842519	43.031661
P17552.0S	12/27/2005	Complete	Dave Johnston Mine SP-7A Stock Reservoir	STO	036N	075W	34	SE1/4SW1/4	Herkimer Draw	-105.842769	43.042531
P1878.0D	07/08/1898	Fully Adjudicated	Williams No. 1 Ditch	IRR; STO	036N	074W	33	NW1/4SW1/4	Sage Creek (12-33-73)	-105.750828	43.044736
P1879.0D	07/08/1898	Fully Adjudicated	Williams No. 2 Ditch	IRR; STO	036N	074W	33	SE1/4SW1/4	Sage Creek (12-33-73)	-105.745775	43.041581
P1881.0D	07/08/1898	Fully Adjudicated	White Rock Spring and Pipeline	DOM; STO	035N	074W	06	NW1/4SW1/4	White Rock Springs	-105.788827	43.031628
P1882.0D	07/08/1898	Fully Adjudicated	Willow Springs	DOM; STO	035N	073W	04	SE1/4NE1/4	Willow Springs Creek	-105.616722	43.035675
P1883.0D	07/08/1898	Fully Adjudicated	Lake Springs and Pipeline	DOM; STO	036N	073W	32	NE1/4SE1/4	Lake Spring	-105.6369	43.046608
P1952.0S	04/16/1957	Expired	Crouch No. 3 Stock Reservoir	STO	035N	074W	06	NE1/4NE1/4	North Platte River	-105.774336	43.038964

Table 3.4-3 Surface Water Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Source Name	Longitude	Latitude
P1965.0S	04/15/1957	Fully Adjudicated	Federal No. 1 Stock Reservoir	STO	035N	074W	29	SW1/4SE1/4	Federal Draw	-105.758917	42.970125
P1966.0S	04/15/1957	Fully Adjudicated	Bruce Mine Stock Reservoir	STO	035N	074W	30	SW1/4SW1/4	Bruce Mine Draw	-105.788256	42.96995
P23404.0D	02/19/1970	Fully Adjudicated	Amspoker No. 1 Ditch	IRR	035N	074W	02	SE1/4SE1/4	Amspoker Draw	-105.695929	43.028069
P25312.0D	02/02/1976	Fully Adjudicated	Brown Springs Pipeline No. 1	STO	036N	074W	04	SW1/4SE1/4	Hornbuckle Draw	-105.740533	43.115577
P25313.0D	09/09/1976	Fully Adjudicated	Brown Springs Pipeline No. 2	STO	036N	074W	04	NW1/4SE1/4	Brown Spings Creek	-105.739778	43.119309
P25463.0D	04/06/1976	Unadjudicated	Exxon Drainage Ditch	RES	036N	072W	20	NE1/4SW1/4	Fowler Draw	-105.526899	43.076667
P2597.0R	02/16/1914		Sage Creek No. 2 Reservoir	IRR	035N	074W	02	SW1/4NW1/4	Sage Creek (12-33-73)	-105.710371	43.035395
P2718.0S	04/29/1959	Complete	Leland #1 Stock Reservoir	STO	036N	074W	30	SW1/4NW1/4	Leland Draw	-105.789339	43.064158
P4380.0S	09/26/1961	Unadjudicated	West Skunk #1 Stock Reservoir	STO	037N	072W	33	NW1/4NW1/4	West Skunk Creek	-105.517536	43.141927
P4541.0S	04/25/1962	Unadjudicated	Jeff #1 Stock Reservoir	STO	037N	073W	16	NW1/4NE1/4	South Fork Brush Creek	-105.627795	43.184624
P4656.0R	05/24/1937	Unadjudicated	Smith Reservoir	STO	035N	074W	07	SE1/4SE1/4	Blackjack Draw	-105.774149	43.013411
P4703.0R	05/20/1937	Fully Adjudicated	Morton Reservoir	STO	035N	072W	04	SE1/4SE1/4	Dry Draw	-105.497545	43.029455
P5241.0S	11/08/1963	Fully Adjudicated	Genevieve No. 1 Stock Reservoir	STO	037N	072W	31	SE1/4SW1/4	Genevieve Draw	-105.551239	43.130815
P654.0S	01/04/1954	Complete	Vollman #1 Stock Reservoir	STO	035N	073W	05	NW1/4SE1/4	Vollman Draw	-105.641606	43.032236
P8097.0S	02/02/1976	Fully Adjudicated	Brown Springs No. 1 Stock Reservoir	STO	037N	074W	33	NE1/4SE1/4	Brown Springs Creek	-105.741564	43.133579
P8098.0S	02/02/1976	Fully Adjudicated	Brown Springs No. 2 Stock Reservoir	STO	037N	074W	33	SE1/4NE1/4	Brown Springs Creek	-105.741585	43.137183
P8821.0R	04/03/1984	Unadjudicated	UPS-1 Reservoir	FLO; MIS; TEM	035N	075W	13	SE1/4NE1/4	SP-36 Draw	-105.793832	43.00623
P8823.0R	04/03/1984	Unadjudicated	UPS-3 Reservoir	FLO; MIS; TEM	035N	075W	12	SE1/4SW1/4	UPS-3 Draw	-105.803	43.013665
P8824.0R	04/03/1984	Unadjudicated	UPS-5 Reservoir	FLO; MIS; TEM	035N	075W	12	SW1/4NW1/4	SP-20 Draw	-105.807911	43.021043
P8828.0R	04/03/1984	Unadjudicated	SP-35 Reservoir	IND; MIS; TEM	035N	075W	14	NE1/4NE1/4	SP-22 Draw	-105.812645	43.010188
P8829.0R	04/03/1984		SP-36 Reservoir	IND; MIS; TEM	035N	075W	13	SW1/4NW1/4	SP-36 Draw	-105.807738	43.006469
P8830.0R	04/03/1984	Unadjudicated	SP-37 Reservoir	IND; MIS; TEM	035N	075W	24	NW1/4NW1/4	SP-37 Draw	-105.807611	42.99554
P8861.0R	08/30/1984	Unadjudicated	UPS-6 Reservoir	FLO; MIS; TEM	035N	075W	02	SE1/4SE1/4	North Platte River	-105.812895	43.028348
P8862.0R	08/30/1984	Unadjudicated	UPS-7 Reservoir	FLO; MIS; TEM	035N	075W	02	NE1/4SW1/4	Bishop Draw	-105.822866	43.03189
P8863.0R	08/30/1984	Unadjudicated	UPS-8 Reservoir	FLO; MIS; TEM	035N	075W	02	NW1/4NW1/4	UPS-8 Draw	-105.827965	43.038931
P9485.0R	05/15/1989	Unadjudicated	SP-39 Reservoir	IND; TEM	035N	075W	24	NE1/4SE1/4	SP-39 Draw	-105.793069	42.98808

Water rights information collected from Wyoming State Engineer e-permit database.

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P102267.0W	05/08/1996	Complete	Shideler #1	DOM	034N	075W	04	NW1/4NE1/4	2	235	90	-105.85656	42.95194
P106068.0W	05/28/1997	Complete	Mary #1	DOM	034N	075W	04	NW1/4NE1/4	25	431	77	-105.85656	42.95194
P52104.0W	05/15/1980	Complete	Adams #2	DOM	035N	075W	04	NE1/4NE1/4	5	480	350	-105.85257	43.0389
P40916.0W	11/18/1977	Complete	Ursey #1	DOM	035N	075W	28	SE1/4NE1/4	10	170	150	-105.8518	42.97724
P42925.0W	04/19/1978	Complete	Van Buskirk #1	DOM	035N	075W	28	SW1/4NE1/4	10	120	70	-105.85669	42.97727
P181469.0W	06/11/2007		Grose No. 1	DOM	035N	075W	33	SE1/4NE1/4	25			-105.85164	42.96274
P32956.0W	04/20/1976	Complete	Gurwell #1	DOM	035N	075W	33	NE1/4SE1/4	12	340	120	-105.85161	42.95913
P161415.0W	08/19/2004	Complete	ENL. Scholtz #1	DOM	035N	075W	34	NW1/4NW1/4	0	50	15	-105.84675	42.96635
P128950.0W	09/01/2000	Complete	Bull Pasture	DOM	036N	071W	31	SW1/4SW1/4	15	80	35	-105.43419	43.0442
P16286.0P	12/21/1946	Complete	Fowler #1	DOM	036N	072W	09	SE1/4SE1/4	8.5	212	182	-105.49739	43.10232
P6988.0P	12/31/1925	Complete	Vollman #6	DOM	036N	073W	27	NW1/4NE1/4	5	180	165	-105.60257	43.06862
P23698.0W	08/01/1973	Complete	Baker #1	DOM	037N	073W	10	NE1/4NW1/4	6	300	20	-105.61322	43.19907
P68591.0W	09/25/1984	Complete	Baker 10 A	DOM	037N	073W	10	SE1/4NW1/4	13	300	50	-105.61317	43.19545
P35031.0W	09/27/1976	Complete	Duck Creek #2	DOM	037N	073W	22	SE1/4NE1/4	1.5	400	0	-105.60313	43.1666
P9162.0P	10/31/1949	Complete	Reynolds #22	DOM	037N	073W	22	SE1/4NE1/4	3	375	-6.00	-105.60313	43.1666
P17313.0P	09/21/1928	Complete	Mason #1	DOM	037N	074W	35	SW1/4SE1/4	3	118	75	-105.70683	43.13013
P2493.0W	04/11/1969	Fully Adjudicated	Highland #3	DOM; IND	036N	072W	20	NE1/4SE1/4	150	298	129	-105.51714	43.0767
P2600.0W	05/29/1969	Fully Adjudicated	Highland #6	DOM; IND	036N	072W	29	NE1/4NW1/4	100	400	50	-105.52708	43.06937
P32562.0W	07/21/1975	Incomplete	Scholtz #2	DOM; IRR; STK	035N	075W	34	NW1/4NW1/4	100	56	16	-105.84675	42.96635
P106711.0W	07/15/1997	Complete	Shideler #2	DOM; STK	034N	075W	04	NW1/4NE1/4	15	434	380	-105.85656	42.95194
P5003.0P	12/21/1925	Complete	Smith #30	DOM; STK	035N	074W	13	SW1/4SE1/4	8	110	80	-105.68065	42.99934
P43002.0W	04/10/1978	Complete	Williams #1	DOM; STK	035N	075W	04	NW1/4NE1/4	3	380	110	-105.85749	43.03891
P177382.0W	09/25/2006	Complete	Hoyer #1	DOM; STK	035N	075W	28	SE1/4SE1/4	10	345	165	-105.85169	42.96996
P190926.0W	07/07/2009	Complete	Loyd #1	DOM; STK	035N	075W	28	SE1/4SE1/4	25			-105.851717	42.969464
P192855.0W	04/30/2010	Incomplete	Heinen Well 2	DOM; STK	035N	075W	28	SW1/4NE1/4	25			-105.856664	42.976806
P40792.0W	11/09/1977	Complete	Leyrer #1	DOM; STK	035N	075W	28	SE1/4SE1/4	12	420	40	-105.85169	42.96996
P90259.0W	12/09/1992	Complete	Popskull 28-2	DOM; STK	035N	075W	28	NW1/4NE1/4	13	800	225	-105.85673	42.98094
P141652.0W	12/26/2001	Complete	Mooren # 1	DOM; STK	035N	075W	33	SW1/4SE1/4	12	500	160	-105.8565	42.95553
P175369.0W	07/05/2006	Complete	Rolling Hills #2	DOM; STK	035N	075W	34	SW1/4SW1/4	25			-105.846669	42.955519
P33796.0W	04/20/1976	Complete	Hornbuckle #20	DOM; STK	036N	074W	04	NE1/4SW1/4	15	120	13	-105.74532	43.11913
P19185.0P	06/21/1922	Complete	North	DOM; STK	036N	074W	18	NE1/4SW1/4	3	40	30	-105.78462	43.08964
P38165.0W	05/31/1977	Complete	Mason #3	DOM; STK	037N	074W	35	NE1/4SW1/4	5	310	180	-105.71183	43.1337
P118307.0W	07/29/1999	Complete	Wellfield 4 NE/NW/2	IND	035N	074W	02	NE1/4NW1/4	75	780	209	-105.70558	43.03915
P118308.0W	07/29/1999	Incomplete	Wellfield 4 NW/NE/2	IND	035N	074W	02	NW1/4NE1/4	30	781	178.8	-105.70065	43.03917
P118309.0W	07/29/1999	Complete	Wellfield 4 NE/NE/2	IND	035N	074W	02	NE1/4NE1/4	75	780	189	-105.69328	43.03834
P118310.0W	07/29/1999	Complete	Wellfield 4 SW/NE/2	IND	035N	074W	02	SW1/4NE1/4	75	760	189	-105.7006	43.03725
P70296.0W	05/21/1985	Complete	O 2 296	IND	035N	074W	02	NW1/4NE1/4	35	760	214.5	-105.70065	43.03917
P114745.0W	03/31/1999	Incomplete	SW/SE 18-36-72; (75 Wells)	IND	036N	072W	18	SW1/4SE1/4	10	550	375	-105.54181	43.08567
P114748.0W	03/31/1999	Incomplete	SW/NW 18-36-72; (53 Wells)	IND	036N	072W	18	SW1/4NW1/4	10	575	342	-105.55252	43.09444
P114749.0W	03/31/1999	Incomplete	NW/SE 18-36-72; (5 Wells)	IND	036N	072W	18	NW1/4SE1/4	10	560	340	-105.54166	43.09144
P114750.0W	03/31/1999	Incomplete	SE/SW 18-36-72; (6 Wells)	IND	036N	072W	18	SE1/4SW1/4	10	560	380	-105.54695	43.08644
P114752.0W	03/31/1999	Incomplete	NE/SW 18-36-72; (39 Wells)	IND	036N	072W	18	NE1/4SW1/4	10	560	345	-105.54686	43.0914
P124117.0W	03/20/2000	Incomplete	NW/NW 18-36-72 (5 wells)	IND	036N	072W	18	NW1/4NW1/4	75	570	344	-105.55249	43.09808
P124118.0W	03/20/2000	Incomplete	SE/NW 18/36/72 (3 Wells)	IND	036N	072W	18	SE1/4NW1/4	10	540	352	-105.54681	43.09458

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P112931.0W	11/12/1998	Incomplete	NE/NE 19-36-72; (26 Wells)	IND	036N	072W	19	NE1/4NE1/4	10	510	360	-105.53675	43.08401
P112932.0W	11/12/1998	Incomplete	NW/NE 19-36-72; (49 Wells)	IND	036N	072W	19	NW1/4NE1/4	10	540	360	-105.54183	43.08402
P112933.0W	11/12/1998	Incomplete	SE/NE 19-36-72; (35 Wells)	IND	036N	072W	19	SE1/4NE1/4	10	510	360	-105.53677	43.08022
P96482.0W	06/24/1994	Incomplete	SE/SE 21-36-73: (30 Wells)	IND	036N	072W	21	SE1/4SE1/4	10	630	350	-105.49772	43.07317
P114746.0W	03/31/1999	Incomplete	SE/NE 13-36-73; (3 Wells)	IND	036N	073W	13	SE1/4NE1/4	10	570	348	-105.55804	43.09433
P114747.0W	03/31/1999	Incomplete	NW/NE 13-36-73; (74 Wells)	IND	036N	073W	13	NW1/4NE1/4	1110	590	335	-105.56292	43.09797
P114751.0W	03/31/1999	Incomplete	NE/NW 13-36-73; (59 Wells)	IND	036N	073W	13	NE1/4NW1/4	885	600	335	-105.56776	43.09796
P124116.0W	03/20/2000	Incomplete	NE/NE 13-36-73 (81 wells)	IND	036N	073W	13	NE1/4NE1/4	1215	580	342	-105.55802	43.09799
P42769.0W	08/19/1977		North Morton #1 Shaft	IND	036N	073W	14	SE1/4SW1/4	100	741	663	-105.58753	43.08685
P86020.0W	08/08/1991	Incomplete	SW/SW 14-36-73 (40 Wells)	IND	036N	073W	14	SW1/4SW1/4	400	585	309	-105.59288	43.08851
P86021.0W	08/08/1991	Incomplete	SE/SE 15-36-73 (65 Wells)	IND	036N	073W	15	SE1/4SE1/4	525	615	369	-105.59749	43.0877
P28245.0W	09/27/1974	Incomplete	Highland #28	IND	036N	073W	20	SE1/4SE1/4	34	835	400	-105.63691	43.072
P109624.0W	04/19/1998	Incomplete	NE/SW 21-36-73; (9 Wells)	IND	036N	073W	21	NE1/4SW1/4	10	730	370	-105.62704	43.07575
P28246.0W	09/27/1974	Incomplete	Highland #29	IND	036N	073W	21	SE1/4SW1/4	35	780	390	-105.62703	43.0721
P96481.0W	06/24/1994	Incomplete	NE/SE 21-36-73: (140 Wells)	IND	036N	073W	21	NE1/4SE1/4	10	620	354	-105.61723	43.07766
P96483.0W	06/24/1994	Incomplete	NW/SE 21-36-73: (50 Wells)	IND	036N	073W	21	NW1/4SE1/4	10	630	364	-105.62047	43.07765
P109623.0W	04/19/1998	Incomplete	NW/SW 22-36-73; (20 Wells)	IND	036N	073W	22	NW1/4SW1/4	10	720	360	-105.61233	43.07591
P129013.0W	09/01/2000	Complete	NW/SE 22-36-73; 19 Wells	IND	036N	073W	22	NW1/4SE1/4	45	690	370	-105.60252	43.07589
P129014.0W	09/01/2000	Incomplete	NE/SW 22-36-73; 27 Wells	IND	036N	073W	22	NE1/4SW1/4	45	670	375	-105.60743	43.0759
P129015.0W	09/01/2000	Complete	SW/NE 22-36-73; 31 Wells	IND	036N	073W	22	SW1/4NE1/4	45	680	370	-105.60248	43.07952
P129016.0W	09/01/2000	Incomplete	SE/NW 22-36-73; 3 Wells	IND	036N	073W	22	SE1/4NW1/4	45	680	375	-105.6074	43.07953
P82943.0W	07/13/1990	Incomplete	NE/NE 22-36-73; 60 Wells	IND	036N	073W	22	NE1/4NE1/4	10	664	395.06	-105.59753	43.08317
P82944.0W	07/13/1990	Incomplete	SE/NE 22-36-73; 50 Wells	IND	036N	073W	22	SE1/4NE1/4	10	685	390	-105.59757	43.07951
P86355.0W	10/02/1991	Incomplete	NE/NE 22-36-73 (12 Wells)	IND	036N	073W	22	NE1/4NE1/4	10	597.8	377	-105.59753	43.08317
P86357.0W	10/02/1991	Incomplete	NE/NW 22-36-73 (15 Wells)	IND	036N	073W	22	NE1/4NW1/4	0	607	314	-105.60736	43.08316
P86358.0W	10/02/1991	Incomplete	SW/NE 22-36-73 (10 Wells)	IND	036N	073W	22	NE1/4NW1/4	100	645	350	-105.60736	43.08316
P86359.0W	10/02/1991	Incomplete	SW/NW 22-36-73 (15 Wells)	IND	036N	073W	22	SW1/4NW1/4	10	560	339	-105.61231	43.07954
P86457.0W	10/10/1991	Incomplete	SE/NW 22-36-73 (90) Wells	IND	036N	073W	22	SE1/4NE1/4	10	609.5	336	-105.59757	43.07951
P91514.0W	04/13/1993	Incomplete	NE/SE 22-36-73 (52 Wells)	IND	036N	073W	22	NE1/4SE1/4	520	625	350	-105.59761	43.07588
P91515.0W	04/13/1993	Incomplete	SE/NE 22-36-73 (76 Wells)	IND	036N	073W	22	SE1/4NE1/4	760	640	346	-105.59757	43.07951
P93089.0W	08/05/1993	Incomplete	SW/NW 22-36-73: (50 Wells)	IND	036N	073W	22	SW1/4NW1/4	10	614.2	362	-105.61231	43.07954
P82945.0W	07/13/1990	Incomplete	NW/NW 23-36-73; 100 Wells	IND	036N	073W	23	NW1/4NW1/4	10	680	381	-105.59254	43.08309
P82946.0W	07/13/1990	Incomplete	SW/NW 23-36-73; 125 Wells	IND	036N	073W	23	SW1/4NW1/4	1250	680	374	-105.59261	43.07953
P91513.0W	04/13/1993	Incomplete	NW/NW 23-36-73 (8 Wells)	IND	036N	073W	23	NW1/4NW1/4	80	620	342	-105.59254	43.08309
P155779.0W	12/30/2003	Complete	SW/SE 24-36-73(25Wells)	IND	036N	073W	24	SW1/4SE1/4	10	660	415	-105.56299	43.07112
P155780.0W	12/30/2003	Complete	SE/SW 24-36-73 (93 Wells)	IND	036N	073W	24	SE1/4SW1/4	10	660	406	-105.56789	43.07113
P155781.0W	12/30/2003	Complete	SW/SW 24-36-73 (31 Wells)	IND	036N	073W	24	SW1/4SW1/4	10	670	440	-105.572817	43.071208
P155782.0W	12/30/2003	Complete	NW/SE 24-36-73 (87 Wells)	IND	036N	073W	24	NW1/4SE1/4	10	620	366	-105.562867	43.076139
P155783.0W	12/30/2003	Complete	NE/SW 24-36-73(104 Wells)	IND	036N	073W	24	NE1/4SW1/4	10	660	402	-105.56785	43.07608
P155784.0W	12/30/2003	Complete	NW/SW 24-36-73(16 Wells)	IND	036N	073W	24	NW1/4SW1/4	10	650	440	-105.572814	43.076039
P41450.0W	11/23/1977	Incomplete	Solution Mine Wells #451 1025	IND	036N	073W	24	NW1/4SE1/4	900	554	440	-105.56297	43.07613
P109625.0W	04/19/1998	Incomplete	SW/NE 29-36-73; (8 Wells)	IND	036N	073W	29	SW1/4NE1/4	10	825	360	-105.64176	43.06473
P109626.0W	04/19/1998	Incomplete	SE/NW 29-36-73; (9 Wells)	IND	036N	073W	29	SE1/4NW1/4	10	810	360	-105.64669	43.06474
P136150.0W	06/13/2001	Complete	Wellfield 2 SW/SW/25	IND	036N	074W	25	SW1/4SW1/4	2400	867	363	-105.69092	43.05737

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P136151.0W	06/13/2001	Complete	Wellfield 2 NW/SW/25	IND	036N	074W	25	NW1/4SW1/4	30	930	391	-105.69089	43.06231
P136153.0W	06/13/2001	Complete	Wellfield 2 SE/SW/25	IND	036N	074W	25	SE1/4SW1/4	30	861	325	-105.6851	43.05842
P136154.0W	06/13/2001	Complete	Wellfield 2 NE/SW/25	IND	036N	074W	25	NE1/4SW1/4	30	895	343	-105.68598	43.06098
P70290.0W	05/21/1985	Complete	0 25 581	IND	036N	074W	25	NE1/4SE1/4	35	900	482.3	-105.67624	43.06095
P70291.0W	05/21/1985	Complete	0 25 582	IND	036N	074W	25	NE1/4SE1/4	35	920	485.3	-105.67624	43.06095
P70292.0W	05/21/1985	Complete	0 25 583	IND	036N	074W	25	NE1/4SE1/4	35	923	469.7	-105.67624	43.06095
P70293.0W	05/21/1985	Complete	0 25 584	IND	036N	074W	25	SE1/4SE1/4	50	921	479	-105.67622	43.05732
P70294.0W	05/21/1985	Complete	O 25 591	IND	036N	074W	25	SE1/4NE1/4	35	983	539.3	-105.67625	43.06459
P70295.0W	05/21/1985	Complete	0 25 592	IND	036N	074W	25	NE1/4NE1/4	35	960	533	-105.67627	43.06823
P136152.0W	06/13/2001	Complete	Wellfield 2 NE/SE/26	IND	036N	074W	26	NE1/4SE1/4	30	850	377	-105.69582	43.0623
P136155.0W	06/13/2001	Complete	Wellfield 2 SE/SE/26	IND	036N	074W	26	SE1/4SE1/4	1300	862	335	-105.69584	43.05737
P136156.0W	06/13/2001	Complete	Wellfield 2 SW/SE/26	IND	036N	074W	26	SW1/4SE1/4	30	761	309	-105.70078	43.05735
P113366.0W	12/09/1998	Complete	Wellfield 4 SE/SE/33	IND	036N	074W	33	SE1/4SE1/4	30	820	217	-105.73506	43.04273
P113367.0W	12/09/1998	Incomplete	Wellfield 4 NE/SE/33	IND	036N	074W	33	NE1/4SE1/4	210	830	223.96	-105.73508	43.04638
P113369.0W	12/09/1998	Complete	Wellfield 4 NW/SW/34	IND	036N	074W	34	NW1/4SW1/4	750	830	223.24	-105.73017	43.04639
P113370.0W	12/09/1998	Complete	Wellfield 4 NE/SW/34	IND	036N	074W	34	NE1/4SW1/4	840	965	335.85	-105.72528	43.04639
P113371.0W	12/09/1998	Complete	Wellfield 4 SE/NW/34	IND	036N	074W	34	SE1/4NW1/4	30	946	390.36	-105.7253	43.05004
P113372.0W	12/09/1998	Complete	Wellfield 4 SW/NE/34	IND	036N	074W	34	SW1/4NE1/4	720	1015	393.15	-105.7203	43.05004
P113373.0W	12/09/1998	Complete	Wellfield 4 SE/NE/34	IND	036N	074W	34	SE1/4NE1/4	856	855	262.45	-105.71576	43.05004
P113374.0W	12/09/1998	Complete	Wellfield 4 NW/SE/34	IND	036N	074W	34	NW1/4SE1/4	120	1015	385.73	-105.72029	43.0464
P113375.0W	12/09/1998	Complete	Wellfield 4 NE/SE/34	IND	036N	074W	34	NE1/4SE1/4	60	830	240.95	-105.71574	43.04641
P70286.0W	05/21/1985	Complete	M 34 529	IND	036N	074W	34	NE1/4SE1/4	35	821	274	-105.71574	43.04641
P113376.0W	12/09/1998	Complete	Wellfield 4 NW/SW/35	IND	036N	074W	35	NW1/4SW1/4	0	825	244	-105.71056	43.04641
P113377.0W	12/09/1998	Complete	Wellfield 4 SW/NW/35	IND	036N	074W	35	SW1/4NW1/4	60	825	247	-105.71058	43.05005
P118304.0W	07/29/1999	Complete	Wellfield 4 NW/SW/35	IND	036N	074W	35	NW1/4SW1/4	550	780	205	-105.71056	43.04641
P118305.0W	07/29/1999	Complete	Wellfield 4 NE/SW/35	IND	036N	074W	35	NE1/4SW1/4	150	779	200	-105.70564	43.04641
P118306.0W	07/29/1999	Complete	Wellfield 4 SE/SW/35	IND	036N	074W	35	SE1/4SW1/4	1050	775	212	-105.70563	43.04276
P118311.0W	07/29/1999	Complete	Wellfield 4 SW/SE/35	IND	036N	074W	35	SW1/4SE1/4	150	770	209	-105.70072	43.04278
P70297.0W	05/21/1985	Complete	M 35 736	IND	036N	074W	35	SE1/4SW1/4	35	799	238	-105.70563	43.04276
P70298.0W	05/21/1985	Complete	M 35 737	IND	036N	074W	35	SE1/4SW1/4	35	800	228	-105.70563	43.04276
P70299.0W	05/21/1985	Complete	M 35 738	IND	036N	074W	35	SE1/4SW1/4	35	801	245	-105.70563	43.04276
P70300.0W	05/21/1985	Complete	M 35 739	IND	036N	074W	35	SE1/4SW1/4	35	795	239	-105.70563	43.04276
P15500.0W	09/14/1972	Incomplete	Section 36 36 74 #2	IND	036N	074W	36	NE1/4NW1/4	850	-1	-1.00	-105.68603	43.05369
P2574.0W	05/19/1969	Complete	Section 36 #1	IND	036N	074W	36	NW1/4NE1/4	50	474	254	-105.68343	43.05551
P70285.0W	05/21/1985	Complete	Q 36 1048	IND	036N	074W	36	SW1/4NE1/4	35	488	372	-105.68111	43.05006
P70287.0W	05/21/1985	Incomplete	Q 36 1045	IND	036N	074W	36	SE1/4NW1/4	35	507	424	-105.68601	43.05006
P70288.0W	05/21/1985	Complete	Q 36 1046	IND	036N	074W	36	SE1/4NW1/4	35	540	451	-105.68601	43.05006
P70289.0W	05/21/1985	Complete	Q 36 1047	IND	036N	074W	36	SW1/4NE1/4	35	520	421	-105.68111	43.05006
P78083.0W	08/25/1988	Complete	SMC1054	IND	037N	074W	36	SW1/4NW1/4	70	834	295	-105.69696	43.13739
P78084.0W	08/25/1988	Incomplete	SMC1055C	IND	037N	074W	36	SW1/4NW1/4	70	834	295	-105.69696	43.13739
P78085.0W	08/25/1988	Incomplete	SMC1056C	IND	037N	074W	36	SW1/4NE1/4	70	525	233	-105.68707	43.13744
P78086.0W	08/25/1988	Incomplete	SMC1057	IND	037N	074W	36	NE1/4NW1/4	70	604	294	-105.69203	43.141
P78087.0W	08/25/1988	Incomplete	SMC1060	IND	037N	074W	36	SW1/4NW1/4	70	785	250	-105.69696	43.13739
P78088.0W	08/25/1988	Incomplete	SMC1061	IND	037N	074W	36	SW1/4NW1/4	70	785	249	-105.69696	43.13739

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P78089.0W	08/25/1988	Incomplete	SMC1063	IND	037N	074W	36	SW1/4NE1/4	70	523	224	-105.68707	43.13744
P78090.0W	08/25/1988	Incomplete	SMC1064	IND	037N	074W	36	SW1/4NE1/4	70	525	235	-105.68707	43.13744
P78091.0W	08/25/1988	Incomplete	SMC1065	IND	037N	074W	36	SW1/4NE1/4	70	514	235	-105.68707	43.13744
P78092.0W	08/25/1988	Incomplete	SMC1066C	IND	037N	074W	36	SW1/4SE1/4	70	437	212	-105.68705	43.13022
P78093.0W	08/25/1988	Incomplete	SMC1067C	IND	037N	074W	36	SW1/4SW1/4	70	763	283	-105.69692	43.13018
P182216.0W	06/20/2007	Incomplete	SE/SE 7-35-74 (11 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	07	SE1/4SE1/4	165			-105.77416	43.01524
P182214.0W	06/20/2007	Incomplete	SE/SW 8-35-74 (113 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	08	SE1/4SW1/4	1695			-105.76426	43.01349
P182215.0W	06/20/2007	Incomplete	SW/SW 8-35-74 (76 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	08	SW1/4SW1/4	1140			-105.76921	43.01527
P172662.0W	09/21/2005	Complete	SW/SW 10-35-74 (2 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	SW1/4SW1/4	10	540	277.8	-105.729817	43.013719
P172663.0W	09/21/2005	Complete	SE/SW 10-35-74 (92 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	SE1/4SW1/4	10	560	272.8		
P172664.0W	09/21/2005	Complete	SW/SE 10-35-74 (110 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	SW1/4SE1/4	10	540	252.8		
P172665.0W	09/21/2005	Complete	SE/SE 10-35-74 (63 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	SE1/4SE1/4	10	530	271.8		
P172666.0W	09/21/2005	Complete	NW/SW 10-35-74 (50 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	NW1/4SW1/4	750			-105.72979	43.01736
P172667.0W	09/21/2005	Complete	NE/SW 10-35-74 (104 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	NE1/4SW1/4	10	460	187.8	-105.724894	43.017447
P172668.0W	09/21/2005	Complete	NW/SE 10-35-74 (94 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	NW1/4SE1/4	10	420	177.5		
P172669.0W	09/21/2005	Complete	NE/SE 10-35-74 (114 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	NE1/4SE1/4	1710			-105.715028	43.017342
P172671.0W	09/21/2005	Complete	SW/NW 10-35-74 (31 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	SW1/4NW1/4	10	470	209.1	-105.729858	43.022156
P172672.0W	09/21/2005	Complete	SE/NE 10-35-74 (65 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	10	SE1/4NE1/4	10	420	151.3		
P172670.0W	09/21/2005		NW/SW 11-35-74 (3 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	11	NW1/4SW1/4	45			-105.7125	43.0173
P172673.0W	09/21/2005		SW/NW 11-35-74 (7 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	11	SW1/4NW1/4	105			-105.7125	43.0203
P185942.0W	02/26/2008	Incomplete	Enl. SW/NW 11-35-74 (90 Wells) - Mine Unit 15A	IND; MIS	035N	074W	11	SW1/4NW1/4	1350			-105.710061	43.020428
P185943.0W	02/26/2008	Incomplete	Enl. NW/SW 11-35-74 (60 Wells) - Mine Unit 15A	IND; MIS	035N	074W	11	NW1/4SW1/4	900			-105.712517	43.016772
P185944.0W	02/26/2008	Incomplete	SW/SW 11-35-74 (87 Wells) Mine Unit 15A	IND; MIS	035N	074W	11	SW1/4SW1/4	1305			-105.712503	43.013881
P185945.0W	02/26/2008	Complete	SE/NW 11-35-74 (36 Wells) Mine Unit 15A	IND; MIS	035N	074W	11	SE1/4NW1/4	10	500	177.78	-105.706711	43.019789
P185946.0W	02/26/2008	Complete	NE/SW 11-35-74 (17 Wells) Mine Unit 15A	IND; MIS	035N	074W	11	NE1/4SW1/4	10	500	178.17	-105.706769	43.018772

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P191225.0W	06/22/2009	Incomplete	NE/NW 11-35-74 (24 Well) Mine Unit 15A (I&P Wells)	IND; MIS	035N	074W	11	NE1/4NW1/4	360			-105.705228	43.024147
P191226.0W	06/22/2009	Incomplete	NW/NE 11-35-74 (3 Wells) Mine Unit 15A (I&P Wells)	IND; MIS	035N	074W	11	NW1/4NE1/4	45			-105.701044	43.024669
P191227.0W	06/22/2009	Incomplete	SW/NE 11-35-74(128 Wells) Mine Unit 15A(I&P Wells)	IND; MIS	035N	074W	11	SW1/4NE1/4	1920			-105.700633	43.021019
P191228.0W	06/22/2009	Incomplete	SE/NE 11-35-74(16 Wells) Mine Unit 15A(I&P Wells)	IND; MIS	035N	074W	11	SE1/4NE1/4	240			-105.695747	43.021353
P191229.0W	06/22/2009	Incomplete	NW/SE 11-35-74(1 Well) Mine Unit 15A(I&P Wells)	IND; MIS	035N	074W	11	NW1/4SE1/4	15			-105.700233	43.018472
P191230.0W	06/22/2009	Incomplete	Enl. SE/NW 11-35-74 (55 Wells) Mine Unit 15A	IND; MIS	035N	074W	11	SE1/4NW1/4	1365			-105.70515	43.022036
P191231.0W	06/22/2009	Incomplete	Enl. NE/SW 11-35-74 – Mine Unit 15A	IND; MIS	035N	074W	11	NE1/4SW1/4	1155			-105.705169	43.016856
P172660.0W	09/21/2005	Complete	NW/NW 15-35-74 (2 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	15	NW1/4NW1/4	10	540	290.8		
P172661.0W	09/21/2005	Complete	NE/NW 15-35-74 (24 Wells) Mine Unit 15 (I&P Wells)	IND; MIS	035N	074W	15	NE1/4NW1/4	10	540	267.8		
P193384.0W	07/12/2010	Incomplete	SW/NW 16-35-74-(94 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	16	SW1/4NW1/4	525			-105.751733	43.006147
P193385.0W	07/12/2010	Incomplete	NW/SW 16-35-74 (54 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	16	NW1/4SW1/4	300			-105.751669	43.002456
P193386.0W	07/12/2010	Incomplete	NE/SW 16-35-74 (35 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	16	NE1/4SW1/4	195			-105.7443	43.002503
P182208.0W	06/20/2007	Incomplete	SW/NW 17-35-74 (32 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	17	SW1/4NW1/4	480			-105.7691	43.00637
P182211.0W	06/20/2007	Incomplete	NE/NW 17-35-74 (87 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	17	NE1/4NW1/4	1305			-105.76423	43.01009
P182212.0W	06/20/2007	Incomplete	NW/NW 17-35-74 (72 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	17	NW1/4NW1/4	1080			-105.76916	43.00958
P193380.0W	07/12/2010	Incomplete	SW/NW 17-35-74 (55 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	17	SW1/4NW1/4	300			-105.769189	43.005839
P193381.0W	07/12/2010	Incomplete	SE/NW 17-35-74 (99 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	17	SE1/4NW1/4	525			-105.764144	43.005958
P193382.0W	07/12/2010	Incomplete	SW/NE 17-35-74 (51 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	17	SW1/4NE1/4	270			-105.759261	43.006103
P193383.0W	07/12/2010	Incomplete	SE/NE 17-35-74 (114 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	17	SE1/4NE1/4	615			-105.754247	43.006008
P194112.0W	10/06/2010	Incomplete	NW/SW 17-35-74 (15 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	17	NW1/4SW1/4	225			-105.769008	43.002242
P182204.0W	06/20/2007	Incomplete	SE/SW 18-35-74 (12 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	SE1/4SW1/4	120	930	546.2	-105.785714	43.000367
P182205.0W	06/20/2007	Incomplete	SW/SW 18-35-74 (53 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	SW1/4SW1/4	795			-105.78862	42.99893
P182206.0W	06/20/2007	Complete	NW/SE 18-35-74 (45 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	NW1/4SE1/4	450	930	464.5	-105.779225	43.003681

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P182207.0W	06/20/2007	Complete	NE/SW 18-35-74 (51 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	NE1/4SW1/4	510	950	502.8	-105.783731	43.001433
P182209.0W	06/20/2007	Incomplete	SE/NE 18-35-74 (85 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	SE1/4NE1/4	1275			-105.77405	43.00567
P182210.0W	06/20/2007	Complete	SW/NE 18-35-74 (11 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	SW1/4NE1/4	110	950	467.1	-105.777047	43.004747
P182213.0W	06/20/2007	Incomplete	NE/NE 18-35-74 (2 Wells) Mine Unit 9 (I&P Wells)	IND; MIS	035N	074W	18	NE1/4NE1/4	30			-105.77413	43.00995
P193375.0W	07/12/2010	Incomplete	SW/SW 18-35-74 (69 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	18	SW1/4SW1/4	405			-105.788603	42.9984
P193376.0W	07/12/2010	Incomplete	SE/SW 18-35-74 (92 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	18	SE1/4SW1/4	450			-105.783972	42.998472
P193377.0W	07/12/2010	Incomplete	NE/SW 18-35-74 (21 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	18	NE1/4SW1/4	90			-105.7839	43.002089
P193378.0W	07/12/2010	Incomplete	NW/SE 18-35-74 (93 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	18	NW1/4SE1/4	405			-105.77865	43.002203
P193379.0W	07/12/2010	Incomplete	NE/SE 18-35-74 (57 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	18	NE1/4SE1/4	300			-105.774131	43.002225
P193374.0W	07/12/2010	Incomplete	NW/NW 19-35-74-(26 Wells) MU 10 (I&P Wells)	IND; MIS	035N	074W	19	NW1/4NW1/4	120			-105.788519	42.994847
P186527.0W	04/02/2008	Incomplete	D.J. MINE #2	IND; MIS	035N	075W	03	SE1/4NW1/4	0			-105.842558	43.034914
P20002.0W	02/05/1973	Fully Adjudicated	Highland #13	IND; MIS	036N	072W	17	SE1/4SE1/4	60	691	330	-105.5168	43.08764
P20013.0W	02/05/1973	Fully Adjudicated	Highland #24	IND; MIS	036N	072W	17	SW1/4SW1/4	100	740	340	-105.52994	43.08574
P2491.0W	04/11/1969	Fully Adjudicated	Highland #1	IND; MIS	036N	072W	17	SE1/4SE1/4	40	442	245	-105.5168	43.08764
P14378.0W	06/23/1972	Fully Adjudicated	Highland #11	IND; MIS	036N	072W	20	SE1/4SW1/4	150	710	185.25	-105.52694	43.07303
P20007.0W	02/05/1973	Fully Adjudicated	Highland #18	IND; MIS	036N	072W	20	SE1/4SE1/4	150	581	-1.00	-105.51722	43.07305
P20009.0W	02/05/1973	Fully Adjudicated	Highland #20	IND; MIS	036N	072W	20	SW1/4SW1/4	125	541	284	-105.5318	43.07302
P20010.0W	02/05/1973	Fully Adjudicated	Highland #21	IND; MIS	036N	072W	20	NW1/4SW1/4	90	601	-1.00	-105.53178	43.07665
P20011.0W	02/05/1973	Fully Adjudicated	Highland #22	IND; MIS	036N	072W	20	SW1/4NW1/4	125	681	260	-105.53176	43.08028
P20012.0W	02/05/1973	Fully Adjudicated	Highland #23	IND; MIS	036N	072W	20	NE1/4NW1/4	50	741	260	-105.52682	43.08394
P20003.0W	02/05/1973	Fully Adjudicated	Highland #14	IND; MIS	036N	072W	21	NW1/4NW1/4	65	692	330	-105.51208	43.08402
P20004.0W	02/05/1973	Fully Adjudicated	Highland #15	IND; MIS	036N	072W	21	SW1/4NW1/4	50	633	285	-105.51178	43.08066
P20005.0W	02/05/1973	Fully Adjudicated	Highland #16	IND; MIS	036N	072W	21	SW1/4NW1/4	100	593	183	-105.51178	43.08066
P20006.0W	02/05/1973	Fully Adjudicated	Highland #17	IND; MIS	036N	072W	21	NW1/4SW1/4	80	490	260	-105.51158	43.07497
P172013.0W	12/07/2005	Complete	14-1-3673 WW	IND; MIS	036N	073W	14	SW1/4NE1/4	23	900	536	-105.582361	43.094336
P172014.0W	12/07/2005	Complete	NW1/4 NE1/4 SEC 14-36-73 45 Wells (C-Wellfield)	IND; MIS	036N	073W	14	NW1/4NE1/4	675	590	306	-105.582597	43.09875
P172015.0W	12/07/2005	Incomplete	NE1/4 NE1/4 SEC 14-36-73 250 Wells (C-Wellfield)	IND; MIS	036N	073W	14	NE1/4NE1/4	3750	570	308	-105.577364	43.098003
P172016.0W	12/07/2005	Complete	SE1/4 NW1/4 SEC 14-36-73 25 Wells (C-Wellfield)	IND; MIS	036N	073W	14	SE1/4NW1/4	375	593	300	-105.587769	43.094281
P172017.0W	12/07/2005	Complete	SW1/4 NE1/4 SEC 14-36-73 225 Wells (C-Wellfield)	IND; MIS	036N	073W	14	SW1/4NE1/4	3375	581	326	-105.582381	43.094147
P172018.0W	12/07/2005	Complete	SE1/4 NE1/4 SEC 14-36-73 125 Wells (C-Wellfield)	IND; MIS	036N	073W	14	SE1/4NE1/4	1875	600	315	-105.577672	43.094375

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P172019.0W	12/07/2005	Complete	NE1/4 SW1/4 SEC 14-36-73 130 Wells (C-Wellfield)	IND; MIS	036N	073W	14	NE1/4SW1/4	1950	557	318	-105.587886	43.090597
P172020.0W	12/07/2005	Complete	NW1/4 SE1/4 SEC 14-36-73 130 Wells (C-Wellfield)	IND; MIS	036N	073W	14	NW1/4SE1/4	1950	572	322	-105.582611	43.090547
P172021.0W	12/07/2005	Complete	SE1/4 SW1/4 SEC 14-36-73 85 Wells (C-Wellfield)	IND; MIS	036N	073W	14	SE1/4SW1/4	1275	585	360	-105.587639	43.086914
P172022.0W	12/07/2005	Complete	SW1/4S E1/4 SEC 14-36-73 25 Wells (C-Wellfield)	IND; MIS	036N	073W	14	SW1/4SE1/4	375	570	360	-105.582303	43.086931
P47368.0W	03/01/1979		NMX - 9	IND; MIS	036N	073W	14	SE1/4NE1/4	50	280	250	-105.57749	43.09424
P171403.0W	09/13/2005		SW/SW 17-36-73 (19 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	17	SW1/4SW1/4	285			-105.6519	43.08754
P171404.0W	09/13/2005		SE/SW 17-36-73 (60 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	17	SE1/4SW1/4	900			-105.64693	43.08657
P171398.0W	09/13/2005		SE/NE 19-36-73 (7 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	19	SE1/4NE1/4	105			-105.65674	43.07928
P171394.0W	09/13/2005		SW/SW 20-36-73 (20 Wells) Mine Unit J (I&PWells)	IND; MIS	036N	073W	20	SW1/4SW1/4	300			-105.65164	43.07204
P171395.0W	09/13/2005		SE/SW 20-36-73 (10 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	SE1/4SW1/4	150			-105.6467	43.07203
P171396.0W	09/13/2005		NW/SW 20-36-73 (7Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	NW1/4SW1/4	105			-105.65171	43.07567
P171397.0W	09/13/2005		NE/SW 20-36-73 (23 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	NE1/4SW1/4	345			-105.64676	43.07566
P171399.0W	09/13/2005		SW/NW 20-36-73 (39 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	SW1/4NW1/4	585			-105.65175	43.07801
P171400.0W	09/13/2005		SE/NW 20-36-73 (78 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	SE1/4NW1/4	1170			-105.64682	43.0793
P171401.0W	09/13/2005		NW/NW 20-36-73 (73 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	NW1/4NW1/4	390			-105.64959	43.08294
P171402.0W	09/13/2005		NE/NW 20-36-73 (75 Wells) Mine Unit J (I&P Wells)	IND; MIS	036N	073W	20	NE1/4NW1/4	1125			-105.64688	43.08294
P178360.0W	11/07/2006		NW1/4 NW1/4 30-36-73 (44 Wells) - Mine Unit K (I&P Wells)	IND; MIS	036N	073W	30	NW1/4NW1/4	660			-105.67157	43.06824
P178362.0W	11/07/2006		SW1/4 NW1/4 30-36-73 (45 Wells) - Mine Unit K (I&P Wells)	IND; MIS	036N	073W	30	SW1/4NW1/4	675			-105.67153	43.0646
P179592.0W	02/14/2007		NW/SW 30-36-73 (7 Wells) Mine Unit K (I&P Wells)	IND; MIS	036N	073W	30	NW1/4SW1/4	105			-105.6715	43.06096
P183440.0W	09/26/2007		Enl. SW1/4 NW1/4 30-36-73 (21) - Mine Unit K (I&P Wells)	IND; MIS	036N	073W	30	SW1/4NW1/4	315			-105.67153	43.0646
P183442.0W	09/26/2007		Enl. NW/SW 30-36-73 (29 Wells) - Mine Unit K (I&P Wells)	IND; MIS	036N	073W	30	NW1/4SW1/4	435			-105.6715	43.06096
P178359.0W	11/07/2006		NE1/4 NE1/4 25-36-74 (40 Wells) - Mine Unit K (I&P Wells)	IND; MIS	036N	074W	25	NE1/4NE1/4	600			-105.67627	43.06823
P178361.0W	11/07/2006		SE1/4 NE1/4 25-36-74 (114 Wells) - Mine Unit K (I&P Wells)	IND; MIS	036N	074W	25	SE1/4NE1/4	1710			-105.67625	43.06459
P179591.0W	02/14/2007		NE/SE 25-36-74 (27 Wells)	IND; MIS	036N	074W	25	NE1/4SE1/4	405			-105.67624	43.06095

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
			Mine Unit K (I&P Wells)										
P183441.0W	09/26/2007		Enl. NE/SE 25-36-74 (98 Wells) Mine Unit K (I &P Wells)	IND; MIS	036N	074W	25	NE1/4SE1/4	1470			-105.67624	43.06095
P183443.0W	09/26/2007	Complete	SE/SE 25-36-74 (71 Wells) Mine Unit K (I&P Wells)	IND; MIS	036N	074W	25	SE1/4SE1/4	1065			-105.67622	43.05732
P194954.0W	01/20/2011	Incomplete	WW-35-1	IND; MIS	037N	074W	35	NE1/4SE1/4	40			-105.704211	43.133225
P29604.0W	04/04/1975		DM 1	IND; MIS; STK	036N	073W	14	SE1/4SW1/4	83	716	333.5	-105.58753	43.08685
P29606.0W	04/04/1975	Incomplete	DM 4	IND; MIS; STK	036N	073W	14	NW1/4SE1/4	41	650	307.2	-105.58253	43.09047
P29607.0W	04/04/1975	Incomplete	DM 5	IND; MIS; STK	036N	073W	14	NE1/4NE1/4	90	640	303.1	-105.57756	43.09792
P29608.0W	04/04/1975		DM 6	IND; MIS; STK	036N	073W	14	SE1/4NE1/4	42	640	309.8	-105.57749	43.09424
P29610.0W	04/04/1975	Incomplete	DM 8	IND; MIS; STK	036N	073W	23	SW1/4NW1/4	60	742	365.8	-105.59261	43.07953
P6023.0W	06/15/1970		SMX Water Well #1	IND; STK	035N	072W	03	NW1/4SW1/4	25	400	27	-105.49166	43.03149
P6022.0W	06/15/1970	Incomplete	MX #WW1 (deepened)	IND; STK	036N	073W	11	SE1/4SE1/4	25	680	30	-105.57757	43.10157
P196923.0W	10/05/2011	Complete	NW/SE 11-35-74(1-Well) Mine Unit 15A (I&P Wells)	IND; MIS	035N	074W	11	NW1/4SE1/4	10	520	104.3	-105.699867	43.018606
P196924.0W	10/05/2011	Complete	SE/NE 11-35-74(16 Wells) Mine Unit 15A (I&P Wells)	IND; MIS	035N	074W	11	SE1/4NE1/4	160	520	118.3	-105.695233	43.021953
P2414.0W	12/11/1968	Incomplete	Smith #1	IRR	035N	074W	12	NE1/4NW1/4	100	600	154	-105.68569	43.02478
P32561.0W	07/21/1975	Incomplete	Scholtz #1	IRR	035N	075W	34	NW1/4NW1/4	80	50	15	-105.84675	42.96635
P193308.0W	02/05/2010	Incomplete	Spillman Draw Unit 35-73 15 - 1H Water Well	MIS	035N	073W	15	NE1/4SW1/4	150			-105.606708	43.002633
P189481.0W	01/07/2009	Complete	Spillman Draw Unit 16-1 Water Well	MIS	035N	073W	16	SE1/4SW1/4	25	600	12.25	-105.626183	42.998922
P193341.0W	07/07/2010	Incomplete	Spillman Draw Unit 35-73 17-1HWW	MIS	035N	073W	17	SW1/4NE1/4	150			-105.641353	43.006189
P178998.0W	12/12/2006	Complete	WW-7-1 (Mine Unit 9 Water Well)	MIS	035N	074W	07	SE1/4SE1/4	40			-105.774094	43.014083
P184297.0W	11/23/2007		WW-7-2 (Mine Unit 9 Water Well)	MIS	035N	074W	07	SE1/4SE1/4	40			-105.77416	43.01524
P187976.0W	07/30/2008	Incomplete	WW-7-3 (Mine Unit 9 Water Well)	MIS	035N	074W	07	SE1/4SE1/4	40			-105.774228	43.014475
P193392.0W	07/15/2010	Incomplete	WW7-4 (MU 9 Water Well)	MIS	035N	074W	07	SE1/4SE1/4	40			-105.774119	43.014756
P126426.0W	06/23/2000	Incomplete	WW-10-1	MIS	035N	074W	10	SW1/4SE1/4	35	297	85	-105.71992	43.01438
P179160.0W	01/10/2007		WW-17-2	MIS	035N	074W	17	NW1/4NE1/4	40			-105.75872	43.01148
P189030.0W	10/13/2008	Incomplete	WW-17-3	MIS	035N	074W	17	NW1/4NE1/4	40			-105.758742	43.011033
P191333.0W	08/12/2009	Incomplete	WW-17-4, Mine Unit 10	MIS	035N	074W	17	SE1/4NE1/4	80			-105.754439	43.006072
P15611.0W	10/18/1972	Fully Adjudicated	D J Mine #2	MIS	035N	075W	03	SE1/4NW1/4	95	1150	375	-105.84262	43.0353
P47942.0W	03/29/1979		South Mine Pit Well #1	MIS	035N	075W	11	SE1/4NE1/4	50	-1	100	-105.81279	43.0211
P49151.0W	07/16/1979		Enl. South Mine Pit Well #1	MIS	035N	075W	11	SE1/4NE1/4	950	100	100	-105.81279	43.0211
P113380.0W	12/22/1998	Incomplete	Sundowner Station #1	MIS	035N	075W	33	NE1/4NE1/4	22	370	250	-105.85166	42.96635
P150529.0W	04/23/2003	Complete	23-1A 3673	MIS	036N	073W	23	NE1/4NE1/4	40	565	375	-105.57754	43.08324
P108648.0W	01/20/1998		WW-36-2	MIS	036N	074W	36	NW1/4NW1/4	100			-105.69091	43.05369
P195234.0W	11/18/2010	Complete	Baker No. 9 Well	MIS	037N	073W	09	SE1/4NE1/4	50	330	45	-105.621133	43.1942
P195231.0W	11/18/2010	Complete	Enl. DCR # 27 (37-73)	MIS	037N	073W	27	NW1/4NE1/4	125			-105.607919	43.155989
P80502.0W	06/16/1989		WS 28 1	MIS	037N	073W	28	SW1/4SW1/4	25	240	110	-105.63768	43.14488
P191661.0W	10/08/2009	Incomplete	WW-35-2	MIS	037N	074W	35	NE1/4SE1/4	400			-105.701864	43.133278
P71290.0W	10/10/1985		DJ82 SW 4	MIS; MON; STK	036N	075W	34	SW1/4NE1/4	25	57	37.9	-105.83786	43.04977
P73878.0W	07/21/1983	Fully Adjudicated	Highland Reservoir	MIS; STK	036N	072W	29	SE1/4NW1/4	430	330	112	-105.52737	43.06431

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P51619.0W	02/18/1980	Complete	MW-30	MON	035N	072W	01	NW1/4NW1/4	0	240	197	-105.45358	43.04042
P51617.0W	02/18/1980	Complete	MW-28C	MON	035N	072W	02	SE1/4SW1/4	0	130	110.75	-105.46811	43.02757
P51620.0W	02/18/1980	Complete	MW-31	MON	035N	072W	02	SW1/4SW1/4	0	230	136.74	-105.4756	43.02936
P51621.0W	02/18/1980	Complete	MW-32	MON	035N	072W	03	SE1/4SE1/4	0	250	136.4	-105.47842	43.02937
P51622.0W	02/18/1980	Complete	MW-33	MON	035N	072W	03	SW1/4NE1/4	0	190	62.63	-105.48337	43.03652
P51623.0W	02/18/1980	Complete	MW-34C	MON	035N	072W	03	NW1/4NE1/4	0	179	79.88	-105.48335	43.04114
P51625.0W	02/18/1980	Complete	MW-36	MON	035N	072W	10	SE1/4NW1/4	0	280	146.99	-105.48586	43.02186
P51626.0W	04/02/1980	Complete	MW-37	MON	035N	072W	10	SE1/4NE1/4	0	225	81.67	-105.47831	43.02185
P51627.0W	02/18/1980	Complete	MW-39	MON	035N	073W	01	SW1/4SW1/4	0	210	132.58	-105.57261	43.02876
P52153.0W	05/14/1980	Complete	OWD 7	MON	035N	074W	01	NE1/4NW1/4	0	720	91	-105.68597	43.03925
P117941.0W	07/30/1999	Complete	MD-416	MON	035N	074W	02	NW1/4NE1/4	0	902	203	-105.70065	43.03917
P117942.0W	07/30/1999	Complete	MD-417	MON	035N	074W	02	NW1/4NE1/4	0	901	186	-105.70065	43.03917
P117947.0W	07/30/1999	Complete	MS-416	MON	035N	074W	02	NW1/4NE1/4	0	675	169	-105.70065	43.03917
P117948.0W	07/30/1999	Complete	MS-417	MON	035N	074W	02	NW1/4NE1/4	0	660	158	-105.70065	43.03917
P55545.0W	01/02/1981	Complete	DJ81-UB-4	MON	035N	074W	02	NE1/4SE1/4	0	459	458.33	-105.69552	43.03205
P55546.0W	01/02/1981	Complete	DJ81-SC-4	MON	035N	074W	02	NE1/4SE1/4	0	385	322.14	-105.69552	43.03205
P55547.0W	01/02/1981	Complete	DJ81-IB-4	MON	035N	074W	02	NE1/4SE1/4	0	353	311.54	-105.69552	43.03205
P70199.0W	05/21/1985	Complete	MM 2 295	MON	035N	074W	02	NW1/4NE1/4	0	757	230.5	-105.70065	43.03917
P179131.0W	01/11/2007	Complete	SE/SE 7-35-74 (2 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	07	SE1/4SE1/4	0			-104.4387	41.425186
P97462.0W	10/19/1994		DJ-1	MON	035N	074W	07	SW1/4SE1/4	0	16	12.37	-105.77912	43.01521
P97463.0W	10/19/1994		DJ-2	MON	035N	074W	07	SW1/4SE1/4	0	16	12.43	-105.77912	43.01521
P97464.0W	10/19/1994		DJ-3	MON	035N	074W	07	SW1/4SE1/4	0	16	10.92	-105.77912	43.01521
P97465.0W	10/19/1994		DJ-4	MON	035N	074W	07	SW1/4SE1/4	0	15	9.21	-105.77912	43.01521
P179128.0W	01/11/2007	Complete	SW/SE 8-35-74 (2 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	08	SW1/4SE1/4	0			-104.439408	41.434572
P179130.0W	01/11/2007	Complete	SW/SW 8-35-74 (9 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	08	SW1/4SW1/4	0			-104.439706	41.429125
P70186.0W	05/21/1985	Complete	KM 8 136	MON	035N	074W	08	SW1/4SW1/4	0	870	336	-105.76921	43.01527
P77029.0W	06/13/1988	Complete	KM 137	MON	035N	074W	08	SW1/4SW1/4	0	880	320	-105.76921	43.01527
P77030.0W	06/13/1988	Complete	KM 138	MON	035N	074W	08	SW1/4SW1/4	0	885	320	-105.76921	43.01527
P77031.0W	06/13/1988	Complete	K 140	MON	035N	074W	08	SW1/4SW1/4	0	881	320	-105.76921	43.01527
P156864.0W	03/02/2004	Complete	NE/SE 9-35-74 (1 Well)	MON	035N	074W	09	NE1/4SE1/4	0	580	195	-105.73243	43.01737
P156865.0W	03/02/2004	Complete	SE/NE 9-35-74 (2 Wells)	MON	035N	074W	09	SE1/4NE1/4	0	640	262	-105.73243	43.02033
P153477.0W	08/11/2003	Complete	771CORE	MON	035N	074W	10	SE1/4NE1/4	0	389	156.5	-105.71502	43.02212
P153478.0W	08/11/2003	Complete	773CORE	MON	035N	074W	10	SW1/4SE1/4	0	429	224.3	-105.71992	43.01438
P156849.0W	03/02/2004	Complete	SE/SE 10-35-74 (8 Wells)	MON	035N	074W	10	SE1/4SE1/4	0	800	224	-105.715	43.01437
P156850.0W	03/02/2004	Complete	NE/SE 10-35-74 (12 Wells)	MON	035N	074W	10	NE1/4SE1/4	0	820	171	-105.71501	43.01731
P156851.0W	03/02/2004	Complete	SE/NE 10-35-74 (8 Wells)	MON	035N	074W	10	SE1/4NE1/4	0	860	168	-105.71502	43.02212
P156853.0W	03/02/2004	Complete	SW/SE 10-35-74 (9 Wells)	MON	035N	074W	10	SW1/4SE1/4	0	820	216	-105.71992	43.01438
P156854.0W	03/02/2004	Complete	NW/SE 10-35-74 (7 Wells)	MON	035N	074W	10	NW1/4SE1/4	0	820	195	-105.71993	43.01733
P156855.0W	03/02/2004	Complete	SW/NE 10-35-74 (1 Well)	MON	035N	074W	10	SW1/4NE1/4	0	560	177	-105.71995	43.02213
P156857.0W	03/02/2004	Complete	SE/SW 10-35-74 (10 Wells)	MON	035N	074W	10	SE1/4SW1/4	0	820	246	-105.72484	43.01371
P156858.0W	03/02/2004	Complete	NE/SW 10-35-74 (12 Wells)	MON	035N	074W	10	NE1/4SW1/4	0	840	200	-105.72485	43.01735

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P156859.0W	03/02/2004	Complete	SE/NW 10-35-74 (2 Wells)	MON	035N	074W	10	SE1/4NW1/4	0	560	176	-105.72488	43.02213
P156861.0W	03/02/2004	Complete	SW/SW 10-35-74 (3 Wells)	MON	035N	074W	10	SW1/4SW1/4	0	640	256	-105.7298	43.01372
P156862.0W	03/02/2004	Complete	NW/SW 10-35-74 (6 Wells)	MON	035N	074W	10	NW1/4SW1/4	0	840	204	-105.72979	43.01736
P156863.0W	03/02/2004	Complete	SW/NW 10-35-74 (10 Wells)	MON	035N	074W	10	SW1/4NW1/4	0	860	202	-105.72982	43.02214
P156846.0W	03/02/2004	Complete	NW/SW 11-35-74 (2 Wells)	MON	035N	074W	11	NW1/4SW1/4	0	620	193	-105.7125	43.0173
P156847.0W	03/02/2004	Complete	SW/NW 11-35-74 (3 Wells)	MON	035N	074W	11	SW1/4NW1/4	0	600	173	-105.7125	43.0203
P175279.0W	06/14/2006		NE/NW 11-35-74 (6 Wells) Mine Unit 15A	MON	035N	074W	11	NE1/4NW1/4	0			-105.70523	43.02462
P175280.0W	06/14/2006		NW/NE 11-35-74 (4 Wells) Mine Unit 15A	MON	035N	074W	11	NW1/4NE1/4	0			-105.70035	43.02469
P175281.0W	06/14/2006		NE/NE 11-35-74 (1 Well) Mine Unit 15A	MON	035N	074W	11	NE1/4NE1/4	0			-105.69546	43.02478
P175282.0W	06/14/2006		SW/NW 11-35-74 (4 Wells) Mine Unit 15A	MON	035N	074W	11	SW1/4NW1/4	0			-105.7125	43.0203
P175283.0W	06/14/2006		SE/NW 11-35-74 (8 Wells) Mine Unit 15A	MON	035N	074W	11	SE1/4NW1/4	0			-105.70519	43.02102
P175284.0W	06/14/2006		SE/NE 11-35-74 (3 Wells) Mine Unit 15A	MON	035N	074W	11	SE1/4NE1/4	0			-105.69541	43.02116
P175285.0W	06/14/2006		NE/SW 11-35-74 (7 Wells) Mine Unit 15A	MON	035N	074W	11	NE1/4SW1/4	0			-105.70515	43.01738
P175286.0W	06/14/2006		NW/SE 11-35-74 (4 Wells) Mine Unit 15A	MON	035N	074W	11	NW1/4SE1/4	0			-105.70025	43.01745
P175287.0W	06/14/2006		SW/SW 11-35-74 (7 Wells) Mine Unit 15A	MON	035N	074W	11	SW1/4SW1/4	0			-105.7125	43.01437
P175288.0W	06/14/2006		SE/SW 11-35-74 (4 Wells) Mine Unit 15A	MON	035N	074W	11	SE1/4SW1/4	0			-105.70511	43.01371
P175552.0W	06/14/2006		SW/NE 11-35-74 (8 Wells) Mine Unit 15A	MON	035N	074W	11	SW1/4NE1/4	0			-105.7003	43.02109
P55817.0W	03/02/1981	Complete	DJ81-SC-13	MON	035N	074W	12	SW1/4NE1/4	0	282.5	251.14	-105.68076	43.02113
P55818.0W	03/02/1981	Complete	DJ81-IB-13	MON	035N	074W	12	SW1/4NE1/4	0	251	247.87	-105.68076	43.02113
P175290.0W	06/14/2006		NW/NW 14-35-74 (2 Wells) Mine Unit 15A	MON	035N	074W	14	NW1/4NW1/4	0			-105.71005	43.01004
P156848.0W	03/02/2004	Complete	NE/NE 15-35-74 (2 Wells)	MON	035N	074W	15	NE1/4NE1/4	0	640	230	-105.71499	43.01004
P156852.0W	03/02/2004	Complete	NW/NE 15-35-74 (2 Wells)	MON	035N	074W	15	NW1/4NE1/4	0	580	209	-105.7199	43.01007
P156856.0W	03/02/2004	Complete	NE/NW 15-35-74 (3 Wells)	MON	035N	074W	15	NE1/4NW1/4	0	620	217	-105.72483	43.00871
P156860.0W	03/02/2004	Complete	NW/NW 15-35-74 (2 Wells)	MON	035N	074W	15	NW1/4NW1/4	0	620	232	-105.72977	43.00872
P175289.0W	06/14/2006		NE/NE 15-35-74 (1 Well) Mine Unit 15A	MON	035N	074W	15	NE1/4NE1/4	0			-105.71499	43.01004
P176084.0W	07/20/2006	Complete	SWMO-002	MON	035N	074W	16	NE1/4SW1/4	0	900	420.99	-105.744389	43.002969
P176085.0W	07/20/2006	Complete	SWMU-002	MON	035N	074W	16	NE1/4SW1/4	0	1100	456.36	-105.744389	43.002969
P176086.0W	07/20/2006	Complete	SWPW-002	MON	035N	074W	16	NE1/4SW1/4	0	1070	431.31	-105.744389	43.002969
P192473.0W	03/05/2010	Incomplete	SE/NW 16-35-74 (2 Wells) Mine Unit 10 Monitor	MON	035N	074W	16	SE1/4NW1/4	0			-105.744364	43.006092
P192474.0W	03/05/2010	Incomplete	NE/SW 16-35-74 (6 Wells) Mine Unit 10 Monitor	MON	035N	074W	16	NE1/4SW1/4	0			-105.744364	43.002503

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P192475.0W	03/05/2010	Incomplete	NW/SW 16-35-74 (7 Wells) Mine Unit 10 Monitor	MON	035N	074W	16	NW1/4SW1/4	0			-105.749183	43.002878
P192477.0W	03/05/2010	Incomplete	NW/NW 16-35-74 (1 Well) Mine Unit 10 Monitor	MON	035N	074W	16	NW1/4NW1/4	0			-105.751803	43.009206
P192478.0W	03/05/2010	Incomplete	SW/NW 16-35-74 (9 Wells) Mine Unit 10 Monitor	MON	035N	074W	16	SW1/4NW1/4	0			-105.751778	43.006128
P176082.0W	07/20/2006	Complete	SWMP-002	MON	035N	074W	17	SE1/4NW1/4	0	960	395.97	-105.761828	43.0071
P176083.0W	07/20/2006	Complete	SWMP-003	MON	035N	074W	17	SE1/4NE1/4	0	950	388.39	-105.754269	43.0066
P179132.0W	01/11/2007	Complete	NW/NE 17-35-74 (2 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	17	NW1/4NE1/4	0			-104.442836	41.433639
P179133.0W	01/11/2007	Complete	NE/NW 17-35-74 (8 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	17	NE1/4NW1/4	0			-104.442869	41.430614
P179134.0W	01/11/2007	Complete	NW/NW 17-35-74 (6 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	17	NW1/4NW1/4	0			-104.444139	41.428839
P179136.0W	01/11/2007	Complete	SW/NW 17-35-74 (6 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	17	SW1/4NW1/4	0			-104.446244	41.427444
P192467.0W	03/05/2010	Incomplete	NE/SW 17-35-74 (2 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	NE1/4SW1/4	0			-105.763906	43.002406
P192468.0W	03/05/2010	Incomplete	NW/SW 17-35-74 (3 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	NW1/4SW1/4	0			-105.768986	43.002178
P192469.0W	03/05/2010	Incomplete	NE/SE 17-35-74 (2 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	NE1/4SE1/4	0			-105.754175	43.002908
P192470.0W	03/05/2010	Incomplete	SE/NE 17-35-74 (14 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	SE1/4NE1/4	0			-105.754356	43.006072
P192471.0W	03/05/2010	Incomplete	SW/SE 17-35-74 (5 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	SW1/4SE1/4	0			-105.759103	42.998739
P192472.0W	03/05/2010	Incomplete	SE/NW 17-35-74 (11 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	SE1/4NW1/4	0			-105.7641	43.005894
P192476.0W	03/05/2010	Incomplete	SW/NW 17-35-74 (3 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	SW1/4NW1/4	0			-105.769147	43.005839
P192479.0W	03/05/2010	Incomplete	NW/NE 17-35-74 (2 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	NW1/4NE1/4	0			-105.758756	43.011033
P192480.0W	03/05/2010	Incomplete	NE/NE 17-35-74 (3 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	NE1/4NE1/4	0			-105.754333	43.011022
P192481.0W	03/05/2010	Incomplete	NE/NW 17-35-74 (2 Wells) Mine Unit 10 Monitor	MON	035N	074W	17	NE1/4NW1/4	0			-105.764253	43.009578
P58597.0W	04/27/1981	Complete	DJ81-UB-14A	MON	035N	074W	17	NE1/4SW1/4	0	135	123.38	-105.7641	43.00281
P58598.0W	04/27/1981	Complete	DJ81-UB-14B	MON	035N	074W	17	NE1/4SW1/4	0	176	138.9	-105.7641	43.00281
P70184.0W	05/21/1985	Complete	OM 17 422	MON	035N	074W	17	SW1/4NE1/4	0	670	452	-105.75922	43.00653
P70185.0W	05/21/1985	Complete	KM 17 421	MON	035N	074W	17	NE1/4NW1/4	0	930	424	-105.76423	43.01009
P176078.0W	07/20/2006	Complete	SWMP-001	MON	035N	074W	18	NW1/4SW1/4	0	1060	620.68	-105.788661	43.002561
P176079.0W	07/20/2006	Complete	SWMO-001	MON	035N	074W	18	NW1/4SE1/4	0	810	473.22	-105.778631	43.002639
P176080.0W	07/20/2006	Complete	SWMU-001	MON	035N	074W	18	NW1/4SE1/4	0	1060	418.91	-105.778631	43.002639
P176081.0W	07/20/2006	Complete	SWPW-001	MON	035N	074W	18	NW1/4SE1/4	0	860	462.82	-105.778631	43.002639
P179135.0W	01/11/2007	Complete	NE/NE 18-35-74 (4 Wells)	MON	035N	074W	18	NE1/4NE1/4	0			-104.444781	41.424839

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
			Mine Unit 9 Monitor Wells										
P179137.0W	01/11/2007	Complete	SE/NE 18-35-74 (8 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	SE1/4NE1/4	0			-104.449183	41.424242
P179138.0W	01/11/2007	Complete	SW/NE 18-35-74 (3 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	SW1/4NE1/4	0			-104.449592	41.420814
P179139.0W	01/11/2007	Complete	NE/SE 18-35-74 (2 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	NE1/4SE1/4	0			-104.452297	41.423906
P179140.0W	01/11/2007	Complete	NW/SE 18-35-74 (6 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	NW1/4SE1/4	0			-104.452297	41.423906
P180360.0W	03/14/2007	Complete	SW/SW 18-35-74 (4 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	SW1/4SW1/4	0			-106.368889	42.826522
P180361.0W	03/14/2007	Complete	SE/SW 18-35-74 (7 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	SE1/4SW1/4	0			-104.456292	41.416269
P180362.0W	03/14/2007	Complete	NW/SW 18-35-74 (2 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	NW1/4SW1/4	0			-106.368483	42.830428
P180363.0W	03/14/2007	Complete	NE/SW 18-35-74 (6 Wells) Mine Unit 9 Monitor Wells	MON	035N	074W	18	NE1/4SW1/4	0			-106.361122	42.831642
P192458.0W	03/05/2010	Incomplete	NW/SE 18-35-74 (3 Wells) Mine Unit 10 Monitor	MON	035N	074W	18	NE1/4SE1/4	0			-105.774025	43.002225
P192459.0W	03/05/2010	Incomplete	NE/SW 18-35-74 (3 Wells) Mine Unit 10 Monitor	MON	035N	074W	18	NE1/4SW1/4	0			-105.784028	43.002108
P192460.0W	03/05/2010	Incomplete	NE/SE 18-35-74-(9 Wells) Mine Unit 10 Monitor	MON	035N	074W	18	NE1/4SE1/4	0			-105.774003	43.002247
P192461.0W	03/05/2010	Incomplete	SW/SE 18-35-74 (3 Wells) Mine Unit 10 Monitor	MON	035N	074W	18	SW1/4SE1/4	0			-105.778631	42.998525
P192462.0W	03/05/2010	Incomplete	SE/SW 18-35-74- (6 Wells) Mine Unit 10 Monitor	MON	035N	074W	18	SE1/4SW1/4	0			-105.783886	42.998431
P192463.0W	03/05/2010	Incomplete	SW/SW 18-35-74 (4 Wells) Mine Unit 10 Monitor	MON	035N	074W	18	SW1/4SW1/4	0			-105.788547	42.998439
P55550.0W	01/02/1981	Complete	DJ81-UB-5	MON	035N	074W	18	SW1/4SW1/4	0	235.1	231.61	-105.78862	42.99893
P55551.0W	01/02/1981	Complete	DJ81-SC-5	MON	035N	074W	18	SW1/4SW1/4	0	164.5	162.34	-105.78862	42.99893
P55552.0W	01/02/1981	Complete	DJ81-IB-5	MON	035N	074W	18	SW1/4SW1/4	0	131	130.48	-105.78862	42.99893
P192464.0W	03/05/2010	Incomplete	NW/NW 19-35-74- (6 Wells) Mine Unit 10 Monitor	MON	035N	074W	19	NW1/4NW1/4	0			-105.788556	42.994753
P176087.0W	07/20/2006	Complete	SWMP-004	MON	035N	074W	21	SW1/4NE1/4	0	840	276.66	-105.739369	42.992039
P55549.0W	01/02/1981	Complete	DJ81-OB-1	MON	035N	075W	02	NE1/4SE1/4	0	154	-7.00	-105.81295	43.03196
P68500.0W	09/21/1984		DJ84-SC-21	MON	035N	075W	02	SE1/4SE1/4	0	230	163.6	-105.81289	43.02834
P77838.0W	08/18/1988	Complete	DJ88 HC 1	MON	035N	075W	03	SE1/4NW1/4	0	50	-7.00	-105.84262	43.0353
P60362.0W	04/16/1982	Complete	DJ82-SW-2	MON	035N	075W	11	NW1/4SE1/4	0	60	38.65	-105.81766	43.01751
P60363.0W	04/16/1982	Complete	DJ82-SW-3	MON	035N	075W	11	NW1/4NE1/4	0	40	38.1	-105.81777	43.02472
P81685.0W	01/24/1990	Complete	DJ SW 3B 90	MON	035N	075W	11	SW1/4NE1/4	0	92	83.92	-105.81771	43.02112
P68501.0W	09/21/1984		DJ84-SC-22	MON	035N	075W	12	NE1/4SW1/4	0	164	99.87	-105.80304	43.01731
P110558.0W	06/16/1998	Complete	DJ98-SW-14	MON	035N	075W	13	SW1/4NE1/4	0	109.1	106.31	-105.7981	43.0063
P192466.0W	03/05/2010	Incomplete	SE/SE 13-35-75 (1Well) Mine Unit 10 Monitor	MON	035N	075W	13	SE1/4SE1/4	0			-105.793772	42.998517

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P110559.0W	06/16/1998	Complete	DJ98-SW-15	MON	035N	075W	24	NW1/4SE1/4	0	42	42	-105.79786	42.98817
P192465.0W	03/05/2010	Incomplete	NE/NE 24-35-75 (2 Wells) Mine Unit 10 Monitor	MON	035N	075W	24	NE1/4NE1/4	0			-105.793183	42.994875
P77432.0W	07/20/1988	Complete	CMO 2	MON	036N	072W	14	NE1/4NE1/4	0	510	312	-105.45862	43.09897
P77441.0W	07/20/1988	Complete	CMO 11	MON	036N	072W	14	SW1/4SW1/4	0	475	290	-105.47322	43.08793
P77442.0W	07/20/1988	Complete	CMO 14	MON	036N	072W	14	SW1/4NE1/4	0	465	345	-105.46347	43.09529
P77443.0W	07/20/1988	Complete	CMO 15	MON	036N	072W	14	SW1/4NE1/4	0	500	346	-105.46347	43.09529
P77444.0W	07/20/1988	Complete	CMO 16	MON	036N	072W	14	NE1/4NE1/4	0	480	345	-105.45862	43.09897
P77446.0W	07/20/1988	Complete	CMO 18	MON	036N	072W	14	NE1/4NE1/4	0	500	345	-105.45862	43.09897
P77453.0W	07/20/1988	Complete	CMU 7	MON	036N	072W	14	NW1/4SE1/4	0			-105.46346	43.09165
P77455.0W	07/20/1988	Complete	CMU 9	MON	036N	072W	14	SE1/4SW1/4	0	650	345	-105.46833	43.08796
P77456.0W	07/20/1988	Complete	CMU 10	MON	036N	072W	14	SW1/4SW1/4	0	640	343	-105.47322	43.08793
P77457.0W	07/20/1988	Complete	CMU 11	MON	036N	072W	14	SW1/4SW1/4	0	640	329	-105.47322	43.08793
P77460.0W	07/20/1988	Incomplete	CMU 16	MON	036N	072W	14	NE1/4NE1/4	0			-105.45862	43.09897
P77461.0W	07/20/1988	Complete	CMU 17	MON	036N	072W	14	NE1/4NE1/4	0	645	319	-105.45862	43.09897
P77462.0W	07/20/1988	Complete	CMU 18	MON	036N	072W	14	NE1/4NE1/4	0	740	312	-105.45862	43.09897
P77472.0W	07/20/1988	Complete	CM 11	MON	036N	072W	14	NE1/4SE1/4	0	615	333	-105.45858	43.09168
P77476.0W	07/20/1988	Complete	CM 15	MON	036N	072W	14	SW1/4SE1/4	0	600	334	-105.46345	43.088
P77483.0W	07/20/1988	Complete	CM 23	MON	036N	072W	14	SW1/4SW1/4	0	615	382	-105.47322	43.08793
P77484.0W	07/20/1988	Complete	CM 24	MON	036N	072W	14	SW1/4SW1/4	0	620	366	-105.47322	43.08793
P77487.0W	07/20/1988	Complete	CM 27	MON	036N	072W	14	SW1/4SW1/4	0	600	317	-105.47322	43.08793
P77491.0W	07/20/1988	Complete	CM 33	MON	036N	072W	14	SE1/4NW1/4	0	600	319	-105.46835	43.09525
P77492.0W	07/20/1988	Complete	CM 34	MON	036N	072W	14	SE1/4NW1/4	0	600	331	-105.46835	43.09525
P77502.0W	07/20/1988	Complete	CM 31	MON	036N	072W	14	NE1/4SW1/4	0	615	368	-105.46834	43.09161
P77508.0W	07/20/1988	Complete	CMO 12	MON	036N	072W	14	NE1/4SW1/4	0	480	286	-105.46834	43.09161
P77509.0W	07/20/1988	Complete	CMO 13	MON	036N	072W	14	NE1/4SW1/4	0	505	317	-105.46834	43.09161
P76809.0W	04/29/1988	Complete	SW/SW SEC 17 Well M 1	MON	036N	072W	16	SW1/4SW1/4	0	570	379.3	-105.51201	43.08767
P76820.0W	04/29/1988	Complete	M 12	MON	036N	072W	16	SW1/4SW1/4	0	547	365.2	-105.51201	43.08767
P76821.0W	04/29/1988	Complete	M 13	MON	036N	072W	16	SW1/4SW1/4	0	550	351.8	-105.51201	43.08767
P76822.0W	04/29/1988	Complete	M 20	MON	036N	072W	16	SW1/4SW1/4	0	535	376.1	-105.51201	43.08767
P76856.0W	04/29/1988	Complete	M 56	MON	036N	072W	16	SW1/4SW1/4	0	515	351.4	-105.51201	43.08767
P76857.0W	04/29/1988	Complete	M 57	MON	036N	072W	16	SW1/4SW1/4	0	525	360.3	-105.51201	43.08767
P77203.0W	06/21/1988	Complete	M 14	MON	036N	072W	16	SW1/4SW1/4	0	580	363	-105.51201	43.08767
P77204.0W	06/21/1988	Complete	M 15	MON	036N	072W	16	SW1/4SW1/4	0	575	362	-105.51201	43.08767
P76855.0W	04/29/1988	Complete	M 55	MON	036N	072W	17	SE1/4SE1/4	0	530	364.1	-105.5168	43.08764
P77212.0W	06/21/1988	Complete	M 64	MON	036N	072W	17	SE1/4SE1/4	0	545	362.75	-105.5168	43.08764
P87634.0W	04/21/1992	Complete	M-99	MON	036N	072W	17	SW1/4SE1/4	0	546	365	-105.52173	43.08943
P108531.0W	01/12/1998	Complete	HM8	MON	036N	072W	18	NW1/4NW1/4	0	600	346.7	-105.55249	43.09808
P108532.0W	01/12/1998	Complete	HM9	MON	036N	072W	18	NW1/4NW1/4	0	600	338.42	-105.55249	43.09808
P108533.0W	01/12/1998	Complete	HM10	MON	036N	072W	18	SW1/4NW1/4	0	640	358.5	-105.55252	43.09444
P108534.0W	01/12/1998	Complete	HM11	MON	036N	072W	18	SW1/4NW1/4	0	600	357.76	-105.55252	43.09444
P108535.0W	01/12/1998	Complete	HM12	MON	036N	072W	18	SE1/4NW1/4	0	575	357.76	-105.54681	43.09458
P108536.0W	01/12/1998	Complete	HM13	MON	036N	072W	18	SE1/4NW1/4	0	570	358.7	-105.54681	43.09458
P108537.0W	01/12/1998	Complete	HM14	MON	036N	072W	18	NE1/4SW1/4	0	575	366.32	-105.54686	43.0914

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P108538.0W	01/12/1998	Complete	HM15	MON	036N	072W	18	NW1/4SE1/4	0	580	385.6	-105.54166	43.09144
P108539.0W	01/12/1998	Complete	HM16	MON	036N	072W	18	NW1/4SE1/4	0	570	369	-105.54166	43.09144
P108540.0W	01/12/1998	Complete	HM17	MON	036N	072W	18	SW1/4SE1/4	0	545	359.28	-105.54181	43.08567
P108541.0W	01/12/1998	Complete	HM18	MON	036N	072W	18	SW1/4SE1/4	0	515	349.54	-105.54181	43.08567
P108553.0W	01/12/1998	Complete	HM30	MON	036N	072W	18	SW1/4SE1/4	0	500	333.51	-105.54181	43.08567
P108554.0W	01/12/1998	Complete	HM31	MON	036N	072W	18	SE1/4SW1/4	0	480	309.75	-105.54695	43.08644
P108555.0W	01/12/1998	Complete	HM32	MON	036N	072W	18	SE1/4SW1/4	0	480	304.36	-105.54695	43.08644
P108556.0W	01/12/1998	Complete	HM33	MON	036N	072W	18	NE1/4SW1/4	0	520	304.36	-105.54686	43.0914
P108557.0W	01/12/1998	Complete	HM34	MON	036N	072W	18	NW1/4SW1/4	0	520	331.53	-105.54948	43.09204
P108558.0W	01/12/1998	Complete	HM35	MON	036N	072W	18	NW1/4SW1/4	0	550	348.75	-105.54948	43.09204
P108559.0W	01/12/1998	Complete	HM36	MON	036N	072W	18	SW1/4NW1/4	0	560	346.7	-105.55252	43.09444
P108560.0W	01/12/1998	Complete	HM37	MON	036N	072W	18	SW1/4NW1/4	0	560	333.5	-105.55252	43.09444
P108574.0W	01/12/1998	Complete	HM06	MON	036N	072W	18	SW1/4NW1/4	0	480	313	-105.55252	43.09444
P108575.0W	01/12/1998	Complete	HM07	MON	036N	072W	18	SW1/4NW1/4	0	485	313	-105.55252	43.09444
P108576.0W	01/12/1998	Complete	HM08	MON	036N	072W	18	NE1/4SW1/4	0	460	313.71	-105.54686	43.0914
P108577.0W	01/12/1998	Complete	HM09	MON	036N	072W	18	NE1/4SW1/4	0	470	313.71	-105.54686	43.0914
P108578.0W	01/12/1998	Complete	HM010	MON	036N	072W	18	SW1/4SE1/4	0	465	313.71	-105.54181	43.08567
P108586.0W	01/12/1998	Complete	HMU6	MON	036N	072W	18	SW1/4NW1/4	0	610	369.7	-105.55252	43.09444
P108587.0W	01/12/1998	Complete	HMU7	MON	036N	072W	18	SW1/4NW1/4	0	620	366.03	-105.55252	43.09444
P108588.0W	01/12/1998	Complete	HMU8	MON	036N	072W	18	NE1/4SW1/4	0	585	357.04	-105.54686	43.0914
P108589.0W	01/12/1998	Complete	HMU9	MON	036N	072W	18	NE1/4SW1/4	0	615	379.2	-105.54686	43.0914
P108590.0W	01/12/1998	Complete	HMU10	MON	036N	072W	18	SW1/4SE1/4	0	615	379.2	-105.54181	43.08567
P108598.0W	01/12/1998	Complete	HMP6	MON	036N	072W	18	SW1/4NW1/4	0	550	337.72	-105.55252	43.09444
P108599.0W	01/12/1998	Complete	HMP7	MON	036N	072W	18	SW1/4NW1/4	0	550	347.5	-105.55252	43.09444
P108600.0W	01/12/1998	Complete	HMP8	MON	036N	072W	18	NE1/4SW1/4	0	520	352.75	-105.54686	43.0914
P108601.0W	01/12/1998	Complete	HMP9	MON	036N	072W	18	NE1/4SW1/4	0	560	389.45	-105.54686	43.0914
P108602.0W	01/12/1998	Complete	HMP10	MON	036N	072W	18	SW1/4SE1/4	0	535	367.75	-105.54181	43.08567
P108542.0W	01/12/1998	Complete	HM19	MON	036N	072W	19	NE1/4NE1/4	0	510	353.71	-105.53675	43.08401
P108543.0W	01/12/1998	Complete	HM20	MON	036N	072W	19	NE1/4NE1/4	0	490	338.42	-105.53675	43.08401
P108544.0W	01/12/1998	Complete	HM21	MON	036N	072W	19	NE1/4NE1/4	0	500	332.59	-105.53675	43.08401
P108545.0W	01/12/1998	Complete	HM22	MON	036N	072W	19	SE1/4NE1/4	0	510	326.33	-105.53677	43.08022
P108546.0W	01/12/1998	Complete	HM23	MON	036N	072W	19	SE1/4NE1/4	0	515	351.6	-105.53677	43.08022
P108547.0W	01/12/1998	Complete	HM24	MON	036N	072W	19	SE1/4NE1/4	0	510	347.4	-105.53677	43.08022
P108548.0W	01/12/1998	Complete	HM25	MON	036N	072W	19	SE1/4NE1/4	0	505	241.21	-105.53677	43.08022
P108549.0W	01/12/1998	Complete	HM26	MON	036N	072W	19	SW1/4NE1/4	0	500	339.51	-105.54187	43.08012
P108550.0W	01/12/1998	Complete	HM27	MON	036N	072W	19	SW1/4NE1/4	0	500	324.27	-105.54187	43.08012
P108551.0W	01/12/1998	Complete	HM28	MON	036N	072W	19	NW1/4NE1/4	0	480	313.22	-105.54183	43.08402
P108552.0W	01/12/1998	Complete	HM29	MON	036N	072W	19	NW1/4NE1/4	0	480	314.05	-105.54183	43.08402
P108579.0W	01/12/1998	Complete	HM011	MON	036N	072W	19	NW1/4NE1/4	0	420	292.3	-105.54183	43.08402
P108580.0W	01/12/1998	Complete	HM012	MON	036N	072W	19	SE1/4NE1/4	0	410	316.76	-105.53677	43.08022
P108591.0W	01/12/1998	Complete	HMU11	MON	036N	072W	19	NW1/4NE1/4	0	550	339.8	-105.54183	43.08402
P108592.0W	01/12/1998	Complete	HMU12	MON	036N	072W	19	SE1/4NE1/4	0	550	359.73	-105.53677	43.08022
P108603.0W	01/12/1998	Complete	HMP11	MON	036N	072W	19	NW1/4NE1/4	0	490	330.4	-105.54183	43.08402
P108604.0W	01/12/1998	Complete	HMP12	MON	036N	072W	19	SE1/4NW1/4	0	500	361.74	-105.547	43.08002

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P57472.0W	07/07/1981	Complete	RM 1	MON	036N	072W	19	NE1/4SE1/4	0	345	240	-105.53679	43.07659
P120487.0W	11/05/1999	Complete	LO-3	MON	036N	072W	20	NW1/4SW1/4	0	470	337.5	-105.53178	43.07665
P120488.0W	11/05/1999	Complete	LO-2	MON	036N	072W	20	NE1/4SW1/4	0	395	278.2	-105.5269	43.07667
P120489.0W	11/05/1999	Complete	LO-1	MON	036N	072W	20	SE1/4SW1/4	0	370	298.1	-105.52694	43.07303
P57473.0W	07/07/1981	Complete	RM 2	MON	036N	072W	20	SE1/4SE1/4	0	235	210	-105.51722	43.07305
P69002.0W	11/20/1984	Complete	Tailings Dam Monitor Well XXXIV	MON	036N	072W	20	SE1/4SE1/4	0	245	-7.00	-105.51722	43.07305
P76839.0W	04/29/1988	Complete	M 39	MON	036N	072W	20	NW1/4SE1/4	0	380	238.4	-105.52202	43.07668
P76840.0W	04/29/1988	Complete	M 40	MON	036N	072W	20	NE1/4SE1/4	0	410	250	-105.51714	43.0767
P76841.0W	04/29/1988	Complete	M 14	MON	036N	072W	20	SE1/4NE1/4	0	405	292	-105.51707	43.08034
P76844.0W	04/29/1988	Complete	M 44	MON	036N	072W	20	SE1/4NE1/4	0	425	255.4	-105.51707	43.08034
P76845.0W	04/29/1988	Complete	M 45	MON	036N	072W	20	SE1/4NE1/4	0	550	260.3	-105.51707	43.08034
P76846.0W	04/29/1988	Complete	M 46	MON	036N	072W	20	SE1/4NE1/4	0	425	262.4	-105.51707	43.08034
P76847.0W	04/29/1988	Complete	M 47	MON	036N	072W	20	SE1/4NE1/4	0	428	265.4	-105.51707	43.08034
P76848.0W	04/29/1988	Complete	M 48	MON	036N	072W	20	NE1/4NE1/4	0	480	304.2	-105.5165	43.08575
P76850.0W	04/29/1988	Complete	M 50	MON	036N	072W	20	NE1/4NE1/4	0	530	348.1	-105.5165	43.08575
P76851.0W	04/29/1988	Complete	M 51	MON	036N	072W	20	NE1/4NE1/4	0	530	352.1	-105.5165	43.08575
P76852.0W	04/29/1988	Complete	M 52	MON	036N	072W	20	NE1/4NE1/4	0	535	365.14	-105.5165	43.08575
P76853.0W	04/29/1988	Complete	M 53	MON	036N	072W	20	NE1/4NE1/4	0	545	366.2	-105.5165	43.08575
P76854.0W	04/29/1988	Complete	M 54	MON	036N	072W	20	NE1/4NE1/4	0	530	363.2	-105.5165	43.08575
P77191.0W	06/15/1988	Complete	TDM XL (174)	MON	036N	072W	20	NE1/4SW1/4	0	358	294	-105.5269	43.07667
P77206.0W	06/21/1988	Complete	M 58	MON	036N	072W	20	NE1/4NE1/4	0	482	303	-105.5165	43.08575
P77207.0W	06/21/1988	Complete	M 59	MON	036N	072W	20	NE1/4NE1/4	0	520	337.05	-105.5165	43.08575
P77208.0W	06/21/1988	Complete	M 60	MON	036N	072W	20	NE1/4NE1/4	0	515	338.54	-105.5165	43.08575
P77209.0W	06/21/1988	Complete	M 61	MON	036N	072W	20	NE1/4NE1/4	0	502	331.68	-105.5165	43.08575
P77210.0W	06/21/1988	Complete	M 62	MON	036N	072W	20	NE1/4NE1/4	0	520	348.75	-105.5165	43.08575
P77211.0W	06/21/1988	Complete	M 63	MON	036N	072W	20	NE1/4NE1/4	0	540	365.89	-105.5165	43.08575
P78269.0W	10/24/1988	Complete	MU 16	MON	036N	072W	20	NE1/4SE1/4	0	440	354.75	-105.51714	43.0767
P78270.0W	10/24/1988	Complete	MU 15	MON	036N	072W	20	NE1/4NE1/4	0	620	375.67	-105.5165	43.08575
P78271.0W	10/24/1988	Complete	MO 17	MON	036N	072W	20	NE1/4NE1/4	0	360	245.42	-105.5165	43.08575
P78272.0W	10/24/1988	Complete	MO 16 (Previously M 53)	MON	036N	072W	20	NE1/4NE1/4	0	535	356.75	-105.5165	43.08575
P78929.0W	01/27/1989	Complete	MU 17	MON	036N	072W	20	NE1/4SE1/4	0	430	290	-105.51714	43.0767
P78930.0W	01/27/1989	Complete	MU 18	MON	036N	072W	20	NE1/4SE1/4	0	422	256	-105.51714	43.0767
P78931.0W	01/27/1989	Complete	MU 19	MON	036N	072W	20	NE1/4SE1/4	0	428	257	-105.51714	43.0767
P53856.0W	08/28/1980		TDM Well Cluster 7	MON	036N	072W	21	SE1/4SE1/4	0	221	162	-105.49772	43.07317
P57470.0W	07/07/1981	Complete	TDM Well Cluster 13	MON	036N	072W	21	SE1/4SE1/4	0	193	162	-105.49772	43.07317
P76798.0W	04/29/1988	Complete	MO 11	MON	036N	072W	21	SW1/4NW1/4	0	476	286.95	-105.51178	43.08066
P76799.0W	04/29/1988	Complete	MO 12A	MON	036N	072W	21	SW1/4NW1/4	0	353	287.6	-105.51178	43.08066
P76800.0W	04/29/1988	Complete	MO 13A	MON	036N	072W	21	SW1/4NW1/4	0	400	277	-105.51178	43.08066
P76801.0W	04/29/1988	Complete	MO 14	MON	036N	072W	21	SW1/4NW1/4	0	462	278.5	-105.51178	43.08066
P76802.0W	04/29/1988	Complete	MO 15	MON	036N	072W	21	NW1/4SW1/4	0	339	277.5	-105.51158	43.07497
P76804.0W	04/29/1988	Complete	MU 10	MON	036N	072W	21	SW1/4NW1/4	0	540	310.05	-105.51178	43.08066
P76805.0W	04/29/1988	Complete	MU 11	MON	036N	072W	21	SW1/4NW1/4	0	505	311.27	-105.51178	43.08066
P76806.0W	04/29/1988	Complete	MU 12	MON	036N	072W	21	SW1/4NW1/4	0	513.5	301.67	-105.51178	43.08066
P76807.0W	04/29/1988	Complete	MU 13	MON	036N	072W	21	SW1/4NW1/4	0	510	275.33	-105.51178	43.08066

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P76808.0W	04/29/1988	Complete	MU 14	MON	036N	072W	21	NW1/4SW1/4	0	500	292.05	-105.51158	43.07497
P76810.0W	04/29/1988	Complete	M 2	MON	036N	072W	21	NW1/4NW1/4	0	575	374.4	-105.51208	43.08402
P76811.0W	04/29/1988	Complete	M 3	MON	036N	072W	21	NW1/4NW1/4	0	565	359.8	-105.51208	43.08402
P76812.0W	04/29/1988	Complete	M 4	MON	036N	072W	21	NW1/4NW1/4	0	540	357.2	-105.51208	43.08402
P76813.0W	04/29/1988	Complete	M 5	MON	036N	072W	21	NW1/4NW1/4	0	535	354	-105.51208	43.08402
P76814.0W	04/29/1988	Complete	M 6	MON	036N	072W	21	NW1/4NW1/4	0	540	359.2	-105.51208	43.08402
P76815.0W	04/29/1988	Complete	M 7	MON	036N	072W	21	NW1/4NW1/4	0	540	347.5	-105.51208	43.08402
P76816.0W	04/29/1988	Complete	M 8	MON	036N	072W	21	NW1/4NW1/4	0	515	331.9	-105.51208	43.08402
P76817.0W	04/29/1988	Complete	M 9	MON	036N	072W	21	NW1/4NW1/4	0	589	375.1	-105.51208	43.08402
P76818.0W	04/29/1988	Complete	M 10	MON	036N	072W	21	NW1/4NW1/4	0	575	367.2	-105.51208	43.08402
P76819.0W	04/29/1988	Complete	M 11	MON	036N	072W	21	NW1/4NW1/4	0	555	349.4	-105.51208	43.08402
P76823.0W	04/29/1988	Complete	M 21	MON	036N	072W	21	SE1/4SW1/4	0	535	366.3	-105.50748	43.0731
P76824.0W	04/29/1988	Complete	M 23	MON	036N	072W	21	NE1/4NW1/4	0	505	346.9	-105.50726	43.08405
P76825.0W	04/29/1988	Complete	M 24	MON	036N	072W	21	NE1/4NW1/4	0	485	335.1	-105.50726	43.08405
P76826.0W	04/29/1988	Complete	M 25	MON	036N	072W	21	NE1/4NW1/4	0	490	321.7	-105.50726	43.08405
P76827.0W	04/29/1988	Complete	M 26	MON	036N	072W	21	NE1/4NW1/4	0	470	321.4	-105.50726	43.08405
P76828.0W	04/29/1988	Complete	M 27	MON	036N	072W	21	NE1/4NW1/4	0	470	318.1	-105.50726	43.08405
P76829.0W	04/29/1988	Complete	M 28	MON	036N	072W	21	SE1/4NW1/4	0	480	323.8	-105.50733	43.0804
P76830.0W	04/29/1988	Complete	M 30	MON	036N	072W	21	SE1/4NW1/4	0	457	304.6	-105.50733	43.0804
P76831.0W	04/29/1988	Complete	M 31	MON	036N	072W	21	SE1/4NW1/4	0	435	281.9	-105.50733	43.0804
P76832.0W	04/29/1988	Complete	M 32	MON	036N	072W	21	SW1/4NW1/4	0	415	256.8	-105.51178	43.08066
P76833.0W	04/29/1988	Complete	M 33	MON	036N	072W	21	SW1/4NW1/4	0	420	249.9	-105.51178	43.08066
P76834.0W	04/29/1988	Complete	M 34	MON	036N	072W	21	NW1/4SW1/4	0	380	283.6	-105.51158	43.07497
P76835.0W	04/29/1988	Complete	M 35	MON	036N	072W	21	NW1/4SW1/4	0	425	270.85	-105.51158	43.07497
P76836.0W	04/29/1988	Complete	M 36	MON	036N	072W	21	NW1/4SW1/4	0	450	281.5	-105.51158	43.07497
P76837.0W	04/29/1988	Complete	M 37	MON	036N	072W	21	NW1/4SW1/4	0	470	252	-105.51158	43.07497
P76838.0W	04/29/1988	Complete	M 38	MON	036N	072W	21	NE1/4SE1/4	0	405	245	-105.49766	43.07682
P76842.0W	04/29/1988	Complete	M 42	MON	036N	072W	21	SW1/4NW1/4	0	405	247.3	-105.51178	43.08066
P76843.0W	04/29/1988	Complete	M 43	MON	036N	072W	21	SW1/4NW1/4	0	435	263.2	-105.51178	43.08066
P76858.0W	04/29/1988	Complete	MO 1	MON	036N	072W	21	NW1/4NW1/4	0	465	344.9	-105.51208	43.08402
P76859.0W	04/29/1988	Complete	MO 2	MON	036N	072W	21	NW1/4NW1/4	0	460	337.04	-105.51208	43.08402
P76860.0W	04/29/1988	Complete	MO 5	MON	036N	072W	21	NW1/4NW1/4	0	455	328.7	-105.51208	43.08402
P76861.0W	04/29/1988	Complete	MO 6	MON	036N	072W	21	NW1/4NW1/4	0	480	346.63	-105.51208	43.08402
P76862.0W	04/29/1988	Complete	MO 7	MON	036N	072W	21	NW1/4NW1/4	0	455	335.56	-105.51208	43.08402
P76863.0W	04/29/1988	Complete	MO 8	MON	036N	072W	21	NW1/4NW1/4	0	440	318.35	-105.51208	43.08402
P76864.0W	04/29/1988	Complete	MO 9	MON	036N	072W	21	NW1/4NW1/4	0	395	287.3	-105.51208	43.08402
P76865.0W	04/29/1988	Complete	MU 1	MON	036N	072W	21	NW1/4NW1/4	0	590	358.95	-105.51208	43.08402
P76866.0W	04/29/1988	Complete	MU 2	MON	036N	072W	21	NW1/4NW1/4	0	600	358.24	-105.51208	43.08402
P76867.0W	04/29/1988	Complete	MU 5	MON	036N	072W	21	NW1/4NW1/4	0	590	344.45	-105.51208	43.08402
P76868.0W	04/29/1988	Complete	MU 6	MON	036N	072W	21	NW1/4NW1/4	0	600	362.98	-105.51208	43.08402
P76869.0W	04/29/1988	Complete	MU 7	MON	036N	072W	21	NW1/4NW1/4	0	580	342.65	-105.51208	43.08402
P76870.0W	04/29/1988	Complete	MU 8	MON	036N	072W	21	NW1/4NW1/4	0	540	302.65	-105.51208	43.08402
P76871.0W	04/29/1988	Complete	MSH 35	MON	036N	072W	21	NW1/4NW1/4	0	455	337.69	-105.51208	43.08402
P76872.0W	04/29/1988	Complete	MSH 15	MON	036N	072W	21	NW1/4NW1/4	0	553	349.25	-105.51208	43.08402

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P77193.0W	06/15/1988	Complete	TDM XLII (176)	MON	036N	072W	21	SE1/4SE1/4	0	161	112	-105.49772	43.07317
P77196.0W	06/15/1988	Complete	TDM XLV (179)	MON	036N	072W	21	NE1/4SE1/4	0	216	156	-105.49766	43.07682
P77200.0W	06/15/1988	Complete	TDM XLIX (183)	MON	036N	072W	21	NW1/4SE1/4	0	217	174	-105.50253	43.07679
P77205.0W	06/21/1988	Complete	M 16	MON	036N	072W	21	NW1/4NW1/4	0	580	364	-105.51208	43.08402
P78267.0W	10/24/1988	Complete	M 22	MON	036N	072W	21	NE1/4NW1/4	0	515	362.08	-105.50726	43.08405
P78268.0W	10/24/1988	Complete	M 29	MON	036N	072W	21	SE1/4NW1/4	0	465	319.25	-105.50733	43.0804
P53862.0W	08/28/1980	Complete	TDM Well Cluster 2	MON	036N	072W	22	SE1/4SW1/4	0	75	33	-105.48795	43.07323
P77198.0W	06/15/1988	Complete	TDM XLVII (181)	MON	036N	072W	22	NW1/4SW1/4	0	137	97	-105.49279	43.07685
P77199.0W	06/15/1988	Complete	TDM XLVIII (182)	MON	036N	072W	22	SW1/4NW1/4	0	156	103	-105.49274	43.08051
P77459.0W	07/20/1988	Complete	CMU 15	MON	036N	072W	23	SW1/4NE1/4	0	670	358	-105.46344	43.0807
P162571.0W	09/24/2004	Complete	MFG-3	MON	036N	072W	27	SW1/4NE1/4	0	151.5	45.4	-105.48313	43.06594
P162572.0W	09/24/2004	Complete	MFG-1	MON	036N	072W	27	SW1/4NE1/4	0	51.5	41.6	-105.48313	43.06594
P162573.0W	09/24/2004	Complete	MFG-2	MON	036N	072W	27	SW1/4NE1/4	0	96	46.65	-105.48313	43.06594
P53861.0W	08/28/1980	Complete	TDM Well Cluster 3	MON	036N	072W	27	SW1/4NW1/4	0	120	108	-105.49295	43.06587
P57466.0W	07/07/1981		TDM Cluster 9	MON	036N	072W	27	NE1/4SW1/4	0	80	-7.00	-105.4881	43.06224
P57467.0W	07/07/1981		TDM Well Cluster 10	MON	036N	072W	27	NW1/4NE1/4	0	27	-7.00	-105.48309	43.0696
P57468.0W	07/07/1981	Complete	TDM Well Cluster 11	MON	036N	072W	27	NE1/4NW1/4	0	52	-7.00	-105.48799	43.06957
P57469.0W	07/07/1981		TDM Well Cluster 12	MON	036N	072W	27	SE1/4SW1/4	0	145	108	-105.48815	43.05857
P67987.0W	07/18/1984	Complete	Tailings Dam Monitor Well XXXI	MON	036N	072W	27	NW1/4NE1/4	0	43	33	-105.48309	43.0696
P67988.0W	07/18/1984	Complete	Tailings Dam Monitor Well XXXII	MON	036N	072W	27	SW1/4NE1/4	0	40	17	-105.48313	43.06594
P67989.0W	07/18/1984	Complete	Tailings Dam Monitor Well XXXIII	MON	036N	072W	27	NW1/4SE1/4	0	20	-7.00	-105.48317	43.06227
P69004.0W	11/20/1984	Complete	Tailings Dam Monitor Well XXXVI	MON	036N	072W	27	NW1/4SW1/4	0	240	169.6	-105.49189	43.06221
P58090.0W	08/26/1981	Complete	TDM Well Cluster 15	MON	036N	072W	28	NW1/4SE1/4	0	280	188	-105.50287	43.06214
P69003.0W	11/20/1984	Complete	Tailings Dam Monitor Well XXXV	MON	036N	072W	28	NW1/4NW1/4	0	225	-7.00	-105.50997	43.07107
P71110.0W	09/11/1985	Complete	TDM XXXVIII	MON	036N	072W	28	SE1/4NW1/4	0	258	247	-105.50768	43.06578
P71111.0W	09/11/1985	Complete	TDM XXXVII	MON	036N	072W	28	SW1/4NW1/4	0	180	168	-105.51259	43.06574
P77190.0W	06/15/1988	Complete	TDM XXXIX (173)	MON	036N	072W	28	NW1/4SE1/4	0	200	165	-105.50287	43.06214
P77197.0W	06/15/1988	Complete	TDM XLVI (180)	MON	036N	072W	28	NE1/4NW1/4	0	240	213	-105.50753	43.07056
P80814.0W	09/13/1989	Complete	TDM XIR (116R)	MON	036N	072W	28	NW1/4NE1/4	0	219	175	-105.50265	43.06948
P57474.0W	07/07/1981	Complete	RM 3	MON	036N	072W	29	NW1/4NW1/4	0	193	178	-105.53194	43.06935
P57475.0W	07/07/1981	Complete	RM 4	MON	036N	072W	29	SE1/4SE1/4	0	55	32	-105.51781	43.05837
P79115.0W	02/27/1989	Complete	3750 5350 30 36 72	MON	036N	072W	30	SE1/4NE1/4	0	340	274	-105.53718	43.06511
P51605.0W	02/18/1980	Complete	MW-38	MON	036N	072W	32	SW1/4NW1/4	0	200	35.58	-105.53278	43.05098
P51624.0W	02/18/1980	Complete	MW-35	MON	036N	072W	34	SW1/4SW1/4	0	280	113.55	-105.49512	43.04322
P56681.0W	05/12/1981	Complete	MWR #9	MON	036N	073W	09	SE1/4SW1/4	0	640	400.7	-105.62714	43.10118
P108527.0W	01/12/1998	Complete	HM4	MON	036N	073W	12	SW1/4SE1/4	0	600	310.57	-105.56289	43.10162
P108528.0W	01/12/1998	Complete	HM5	MON	036N	073W	12	SW1/4SE1/4	0	600	324.5	-105.56289	43.10162
P108529.0W	01/12/1998	Complete	HM6	MON	036N	073W	12	SE1/4SE1/4	0	600	322.97	-105.558	43.10167
P108526.0W	01/12/1998	Complete	HM3	MON	036N	073W	13	NE1/4NW1/4	0	600	327.74	-105.56776	43.09796
P108530.0W	01/12/1998	Complete	HM7	MON	036N	073W	13	NE1/4NE1/4	0	600	331.88	-105.55802	43.09799
P108561.0W	01/12/1998	Complete	HM38	MON	036N	073W	13	SE1/4NE1/4	0	580	334.89	-105.55804	43.09433
P108562.0W	01/12/1998	Complete	HM39	MON	036N	073W	13	SE1/4NE1/4	0	590	354.73	-105.55804	43.09433
P108563.0W	01/12/1998	Complete	HM40	MON	036N	073W	13	SW1/4NE1/4	0	580	345.67	-105.5629	43.09433
P108564.0W	01/12/1998	Complete	HM41	MON	036N	073W	13	SW1/4NE1/4	0	585	338.04	-105.5629	43.09433

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P108565.0W	01/12/1998	Complete	HM42	MON	036N	073W	13	SE1/4NW1/4	0	595	352.47	-105.56776	43.0943
P108566.0W	01/12/1998	Complete	HM43	MON	036N	073W	13	SE1/4NW1/4	0	585	329.95	-105.56776	43.0943
P108567.0W	01/12/1998	Complete	HM44	MON	036N	073W	13	NE1/4NW1/4	0	595	338.1	-105.56776	43.09796
P108568.0W	01/12/1998	Complete	HM45	MON	036N	073W	13	NW1/4NW1/4	0	600	331	-105.57264	43.09794
P108569.0W	01/12/1998	Complete	HM01	MON	036N	073W	13	NE1/4NW1/4	0	460	298.76	-105.56776	43.09796
P108570.0W	01/12/1998	Complete	HM02	MON	036N	073W	13	NE1/4NW1/4	0	480	324.7	-105.56776	43.09796
P108571.0W	01/12/1998	Complete	HM03	MON	036N	073W	13	NW1/4NE1/4	0	495	306.7	-105.56292	43.09797
P108572.0W	01/12/1998	Complete	HM04	MON	036N	073W	13	NE1/4NE1/4	0	468	315.2	-105.55802	43.09799
P108573.0W	01/12/1998	Complete	HM05	MON	036N	073W	13	NE1/4NE1/4	0	470	315.2	-105.55802	43.09799
P108581.0W	01/12/1998	Complete	HMU1	MON	036N	073W	13	NE1/4NW1/4	0	650	339.8	-105.56776	43.09796
P108582.0W	01/12/1998	Complete	HMU2	MON	036N	073W	13	NE1/4NW1/4	0	610	343.24	-105.56776	43.09796
P108583.0W	01/12/1998	Complete	HMU3	MON	036N	073W	13	NW1/4NE1/4	0	630	345.8	-105.56292	43.09797
P108584.0W	01/12/1998	Complete	HMU4	MON	036N	073W	13	NE1/4NE1/4	0	620	344.6	-105.55802	43.09799
P108585.0W	01/12/1998	Complete	HMU5	MON	036N	073W	13	NE1/4NE1/4	0	620	347.49	-105.55802	43.09799
P108593.0W	01/12/1998	Complete	HMP1	MON	036N	073W	13	NE1/4NW1/4	0	585	331.93	-105.56776	43.09796
P108594.0W	01/12/1998	Complete	HMP2	MON	036N	073W	13	NE1/4NW1/4	0	585	338.1	-105.56776	43.09796
P108595.0W	01/12/1998	Complete	HMP3	MON	036N	073W	13	NW1/4NE1/4	0	540	327.92	-105.56292	43.09797
P108596.0W	01/12/1998	Complete	HMP4	MON	036N	073W	13	NE1/4NE1/4	0	565	327.55	-105.55802	43.09799
P108597.0W	01/12/1998	Complete	HMP5	MON	036N	073W	13	NE1/4NE1/4	0	550	338.8	-105.55802	43.09799
P112657.0W	11/03/1998	Complete	HMO13	MON	036N	073W	13	NE1/4NW1/4	0	490	315.58	-105.56776	43.09796
P112658.0W	11/03/1998	Complete	HMO14	MON	036N	073W	13	NW1/4NE1/4	0	500	326.71	-105.56292	43.09797
P112659.0W	11/03/1998	Complete	HMO15	MON	036N	073W	13	NE1/4NE1/4	0	490	313.3	-105.55802	43.09799
P77464.0W	07/20/1988	Complete	CM 2	MON	036N	073W	13	NW1/4NW1/4	0	607	308.36	-105.57264	43.09794
P77465.0W	07/20/1988	Complete	CM 3	MON	036N	073W	13	NW1/4NW1/4	0	620	315.28	-105.57264	43.09794
P77466.0W	07/20/1988	Complete	CM 4	MON	036N	073W	13	NW1/4NW1/4	0	615	315.05	-105.57264	43.09794
P77467.0W	07/20/1988	Complete	CM 5	MON	036N	073W	13	NW1/4NW1/4	0	625	316.72	-105.57264	43.09794
P77431.0W	07/20/1988	Complete	C MO 1	MON	036N	073W	14	NE1/4NE1/4	0	523	290.58	-105.57756	43.09792
P77433.0W	07/20/1988	Complete	CMO 3	MON	036N	073W	14	NE1/4NE1/4	0	520	297.4	-105.57756	43.09792
P77434.0W	07/20/1988	Complete	CMO 4	MON	036N	073W	14	NE1/4NE1/4	0	530	303.58	-105.57756	43.09792
P77435.0W	07/20/1988	Complete	CMO 5	MON	036N	073W	14	SE1/4NE1/4	0	525	311.96	-105.57749	43.09424
P77436.0W	07/20/1988	Complete	CMO 6	MON	036N	073W	14	NW1/4SE1/4	0	530	324.7	-105.58253	43.09047
P77437.0W	07/20/1988	Complete	CMO 7	MON	036N	073W	14	NW1/4SE1/4	0	530	300.65	-105.58253	43.09047
P77438.0W	07/20/1988	Complete	CMO 8	MON	036N	073W	14	SW1/4SE1/4	0	530	299.13	-105.58251	43.08687
P77439.0W	07/20/1988	Complete	CMO 9	MON	036N	073W	14	SE1/4SW1/4	0	520	295.76	-105.58753	43.08685
P77440.0W	07/20/1988	Complete	CMO 10	MON	036N	073W	14	SW1/4SW1/4	0	520	300.6	-105.59288	43.08851
P77447.0W	07/20/1988	Complete	CMU 1	MON	036N	073W	14	NE1/4NE1/4	0	620	314	-105.57756	43.09792
P77448.0W	07/20/1988	Complete	CMU 2	MON	036N	073W	14	NE1/4NE1/4	0	620	294.12	-105.57756	43.09792
P77449.0W	07/20/1988	Complete	CMU 3	MON	036N	073W	14	NE1/4NE1/4	0	627	308.92	-105.57756	43.09792
P77463.0W	07/20/1988	Complete	CM 1	MON	036N	073W	14	NE1/4NE1/4	0	620	306.63	-105.57756	43.09792
P77468.0W	07/20/1988	Complete	CM 7	MON	036N	073W	14	SE1/4NE1/4	0	620	320.5	-105.57749	43.09424
P77470.0W	07/20/1988	Complete	CM 9	MON	036N	073W	14	SE1/4NE1/4	0	620	320.72	-105.57749	43.09424
P77471.0W	07/20/1988	Complete	CM 10	MON	036N	073W	14	NE1/4SE1/4	0	615	323.55	-105.57753	43.09056
P77473.0W	07/20/1988	Complete	CM 12	MON	036N	073W	14	NW1/4SE1/4	0	600	332	-105.58253	43.09047
P77474.0W	07/20/1988	Complete	CM 13	MON	036N	073W	14	NW1/4SE1/4	0	600	334	-105.58253	43.09047

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P77475.0W	07/20/1988	Complete	CM 14	MON	036N	073W	14	SW1/4SE1/4	0	600	331	-105.58251	43.08687
P77477.0W	07/20/1988	Complete	CM 16	MON	036N	073W	14	SW1/4SE1/4	0	600	342	-105.58251	43.08687
P77485.0W	07/20/1988	Complete	CM 25	MON	036N	073W	14	SW1/4SW1/4	0	610	363	-105.59288	43.08851
P77486.0W	07/20/1988	Complete	CM 26	MON	036N	073W	14	SW1/4SE1/4	0	600	344	-105.58251	43.08687
P77488.0W	07/20/1988	Complete	CM 28	MON	036N	073W	14	SW1/4SW1/4	0	600	317	-105.59288	43.08851
P77489.0W	07/20/1988	Complete	CM 29	MON	036N	073W	14	NW1/4SW1/4	0	600	335	-105.59252	43.09049
P77490.0W	07/20/1988	Complete	CM 30	MON	036N	073W	14	NW1/4SW1/4	0	610	345	-105.59252	43.09049
P77493.0W	07/20/1988	Complete	CM 35	MON	036N	073W	14	SE1/4NW1/4	0	605	343	-105.58777	43.09418
P77494.0W	07/20/1988	Complete	CM 36	MON	036N	073W	14	SW1/4NE1/4	0	660	349.65	-105.58253	43.09421
P77495.0W	07/20/1988	Complete	CM 37	MON	036N	073W	14	SW1/4NE1/4	0	660	349.61	-105.58253	43.09421
P77496.0W	07/20/1988	Complete	CM 38	MON	036N	073W	14	NW1/4NE1/4	0	636	333.75	-105.58253	43.09866
P77497.0W	07/20/1988	Complete	CM 39	MON	036N	073W	14	NW1/4NE1/4	0	620	328.55	-105.58253	43.09866
P77498.0W	07/20/1988	Complete	CM 40	MON	036N	073W	14	NW1/4NE1/4	0	660	336.96	-105.58253	43.09866
P77499.0W	07/20/1988	Complete	CM 41	MON	036N	073W	14	NE1/4NE1/4	0	630	315.56	-105.57756	43.09792
P77500.0W	07/20/1988	Complete	CM 42	MON	036N	073W	14	NE1/4NE1/4	0	620	312.14	-105.57756	43.09792
P77501.0W	07/20/1988	Complete	CM 43	MON	036N	073W	14	NE1/4NE1/4	0	620	306.85	-105.57756	43.09792
P77503.0W	07/20/1988	Complete	CM 32	MON	036N	073W	14	NE1/4SW1/4	0	600	331	-105.58753	43.09065
P77504.0W	07/20/1988	Complete	CM 17	MON	036N	073W	14	SE1/4SW1/4	0	600	346	-105.58753	43.08685
P77505.0W	07/20/1988	Complete	CM 6	MON	036N	073W	14	SE1/4NE1/4	0	620	321.24	-105.57749	43.09424
P77506.0W	07/20/1988	Complete	CMU 12	MON	036N	073W	14	NE1/4SW1/4	0	580	312	-105.58753	43.09065
P77507.0W	07/20/1988	Complete	CMU 13	MON	036N	073W	14	NE1/4SW1/4	0	575	318	-105.58753	43.09065
P78263.0W	10/24/1988	Complete	CM 47	MON	036N	073W	14	SW1/4NE1/4	0	590	327.34	-105.58253	43.09421
P78264.0W	10/24/1988	Complete	CM 46	MON	036N	073W	14	SW1/4NE1/4	0	590	318.42	-105.58253	43.09421
P78265.0W	10/24/1988	Complete	CM 45	MON	036N	073W	14	SW1/4NE1/4	0	590	330.89	-105.58253	43.09421
P78266.0W	10/24/1988	Complete	CM 44	MON	036N	073W	14	NE1/4NE1/4	0	615	304.86	-105.57756	43.09792
P78273.0W	10/24/1988	Complete	CMSH 1	MON	036N	073W	14	SE1/4NE1/4	0	620	314.76	-105.57749	43.09424
P80478.0W	08/10/1989	Complete	CRMW 1	MON	036N	073W	14	SE1/4SW1/4	0			-105.58753	43.08685
P80709.0W	09/18/1989	Complete	CIMW 1	MON	036N	073W	14	SE1/4SW1/4	0			-105.58753	43.08685
P80711.0W	09/18/1989	Complete	CRMW 3	MON	036N	073W	14	SE1/4SW1/4	0			-105.58753	43.08685
P80712.0W	09/18/1989	Complete	CRMW 4	MON	036N	073W	14	SE1/4SW1/4	0			-105.58753	43.08685
P80713.0W	09/18/1989	Complete	CRMW 5	MON	036N	073W	14	SE1/4SW1/4	0			-105.58753	43.08685
P80714.0W	09/18/1989	Complete	CRMW 6	MON	036N	073W	14	SE1/4SW1/4	0			-105.58753	43.08685
P80715.0W	09/18/1989	Complete	14 2 3673 WW	MON	036N	073W	14	NE1/4SE1/4	0			-105.57753	43.09056
P80960.0W	10/12/1989	Complete	COW 1	MON	036N	073W	14	NE1/4SW1/4	0	557	322	-105.58753	43.09065
P47398.0W	04/10/1979	Complete	W H 50 11	MON	036N	073W	15	SE1/4SE1/4	0	598	359	-105.59749	43.0877
P56682.0W	05/12/1981	Complete	MWN #15	MON	036N	073W	15	SE1/4NE1/4	0	584	472.4	-105.59746	43.09412
P82651.0W	06/05/1990	Complete	15-M1	MON	036N	073W	15	SW1/4SE1/4	0	586	328.21	-105.60242	43.08688
P84412.0W	02/07/1991	Complete	EM-23	MON	036N	073W	15	SW1/4SE1/4	0	620	323.72	-105.60242	43.08688
P84413.0W	02/07/1991	Complete	EM-24	MON	036N	073W	15	SW1/4SE1/4	0	600	321.83	-105.60242	43.08688
P84414.0W	02/07/1991	Complete	EM-25	MON	036N	073W	15	SE1/4SE1/4	0	610	324.85	-105.59749	43.0877
P84415.0W	02/07/1991	Complete	EM-26	MON	036N	073W	15	SE1/4SE1/4	0	600	333.32	-105.59749	43.0877
P84416.0W	02/07/1991	Complete	EM-27	MON	036N	073W	15	SE1/4SE1/4	0	600	314.71	-105.59749	43.0877
P84417.0W	02/07/1991	Complete	EM-28	MON	036N	073W	15	SE1/4SE1/4	0	580	292.95	-105.59749	43.0877
P84425.0W	02/07/1991	Complete	EMU-8	MON	036N	073W	15	SE1/4SE1/4	0	680	347.99	-105.59749	43.0877

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P84847.0W	04/08/1991	Complete	EMO-8	MON	036N	073W	15	SE1/4SE1/4	0	440	195.78	-105.59749	43.0877
P167755.0W	05/19/2005	Complete	SW/SW 17-36-73 (2 Wells) Mine Unit J	MON	036N	073W	17	SW1/4SW1/4	0	540	290.89	-105.6519	43.08754
P167756.0W	05/19/2005	Complete	SE/SW 17-36-73 (5 Wells) Mine Unit J	MON	036N	073W	17	SE1/4SW1/4	0	540	283.21	-105.64693	43.08657
P167757.0W	05/19/2005	Complete	SW/SE 17-36-73 (1 Wells) Mine Unit J	MON	036N	073W	17	SW1/4SE1/4	0	540	280.23	-105.64195	43.08659
P167745.0W	05/19/2005	Complete	NE/SE 19-36-73 (1 Wells) Mine Unit J	MON	036N	073W	19	NE1/4SE1/4	0	600	319	-105.65671	43.07565
P167748.0W	05/19/2005	Complete	SE/NE 19-36-73 (3 Wells) Mine Unit J	MON	036N	073W	19	SE1/4NE1/4	0	580	308	-105.65674	43.07928
P167751.0W	05/19/2005	Complete	NE/NE 19-36-73 (1 Wells) Mine Unit J	MON	036N	073W	19	NE1/4NE1/4	0	560	297.6	-105.65646	43.08111
P172934.0W	01/31/2006		SW/SW 19-36-73 (2 Wells) Mine Unit K Monitor Wells	MON	036N	073W	19	SW1/4SW1/4	0			-105.6716	43.07188
P52155.0W	05/14/1980	Complete	OWD 9	MON	036N	073W	19	SW1/4SW1/4	0	936	613	-105.6716	43.07188
P95215.0W	04/26/1994	Complete	SNOW-1	MON	036N	073W	19	NE1/4NW1/4	0	80	54.9	-105.66692	43.08283
P95216.0W	04/26/1994	Complete	SNOW-2	MON	036N	073W	19	NE1/4NW1/4	0	80	51.9	-105.66692	43.08283
P95217.0W	04/26/1994	Complete	SNOW-3	MON	036N	073W	19	NE1/4NW1/4	0	80	52.8	-105.66692	43.08283
P95218.0W	04/26/1994	Complete	SNOW-4	MON	036N	073W	19	NE1/4NW1/4	0	500	300	-105.66692	43.08283
P167743.0W	05/19/2005	Complete	SW/SW 20-36-73 (5Wells) Mine Unit J	MON	036N	073W	20	SW1/4SW1/4	0	580	319	-105.65164	43.07204
P167744.0W	05/19/2005	Complete	SE/SE 20-36-73 (2Wells) Mine Unit J	MON	036N	073W	20	SE1/4SW1/4	0	580	331	-105.6467	43.07203
P167746.0W	05/19/2005	Complete	NW/SW 20-36-73 (4 Wells) Mine Unit J	MON	036N	073W	20	NW1/4SW1/4	0	580	295	-105.65171	43.07567
P167747.0W	05/19/2005	Complete	NE/SW 20-36-73 (4 Wells) Mine Unit J	MON	036N	073W	20	NE1/4SW1/4	0	580	321	-105.64676	43.07566
P167749.0W	05/19/2005	Complete	SW/NW 20-36-73 (4 Wells) Mine Unit J	MON	036N	073W	20	SW1/4NW1/4	0	560	299.5	-105.65175	43.07801
P167750.0W	05/19/2005	Complete	SE/NW 20-36-73 (8 Wells) Mine Unit J	MON	036N	073W	20	SE1/4NW1/4	0	560	290.5	-105.64682	43.0793
P167752.0W	05/19/2005	Complete	NW/NW 20-36-73 (7 Wells) Mine Unit J	MON	036N	073W	20	NW1/4NW1/4	0	560	301.2	-105.64959	43.08294
P167753.0W	05/19/2005	Complete	NE/NW 20-36-73 (2 Wells) Mine Unit J	MON	036N	073W	20	NE1/4NW1/4	0	520	285.2	-105.64688	43.08294
P167754.0W	05/19/2005	Complete	NW/NE 20-36-73 (3 Wells) Mine Unit J	MON	036N	073W	20	NW1/4NE1/4	0	540	289.83	-105.64191	43.08296
P168580.0W	06/22/2005	Complete	JMT-001	MON	036N	073W	20	NE1/4SW1/4	0	560	314.98	-105.64676	43.07566
P168581.0W	06/22/2005	Complete	JMT-002	MON	036N	073W	20	SE1/4SW1/4	0	560	324.05	-105.6467	43.07203
P47383.0W	04/10/1979	Complete	W H 70 1	MON	036N	073W	20	SW1/4SE1/4	0	565	360	-105.64176	43.07201
P47384.0W	04/10/1979	Complete	W H 70 2	MON	036N	073W	20	NE1/4SE1/4	0	503	338	-105.63692	43.07565
P47389.0W	04/10/1979	Complete	W H 50 2	MON	036N	073W	20	NW1/4SE1/4	0	745	392	-105.64181	43.07565
P47390.0W	04/10/1979	Complete	W H 50 3	MON	036N	073W	20	SW1/4SE1/4	0	779	412	-105.64176	43.07201
P47391.0W	04/10/1979	Complete	W H 50 4	MON	036N	073W	20	SE1/4SE1/4	0	760	404	-105.63691	43.072

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P90384.0W	12/14/1992	Complete	FM-34(M)	MON	036N	073W	20	SE1/4SW1/4	0	788	383.9	-105.6467	43.07203
P90385.0W	12/14/1992	Complete	FM-35(M)	MON	036N	073W	20	SW1/4SE1/4	0	780	370.52	-105.64176	43.07201
P90386.0W	12/14/1992	Complete	FM-36(M)	MON	036N	073W	20	NW1/4SE1/4	0	780	367.02	-105.64181	43.07565
P90387.0W	12/14/1992	Complete	FM-37(M)	MON	036N	073W	20	NW1/4SE1/4	0	780	349.85	-105.64181	43.07565
P90388.0W	12/14/1992	Complete	FM-38(M)	MON	036N	073W	20	NE1/4SE1/4	0	760	367.4	-105.63692	43.07565
P90389.0W	12/14/1992	Complete	FM-34(M)	MON	036N	073W	20	NE1/4SE1/4	0	760	369.8	-105.63692	43.07565
P90403.0W	12/14/1992	Complete	FMO-2	MON	036N	073W	20	SW1/4SE1/4	0	650	291.15	-105.64176	43.07201
P90404.0W	12/14/1992	Complete	FMO-3	MON	036N	073W	20	SW1/4SE1/4	0	610	334.3	-105.64176	43.07201
P90405.0W	12/14/1992	Complete	FMO-4	MON	036N	073W	20	SW1/4SE1/4	0	610	339.39	-105.64176	43.07201
P90406.0W	12/14/1992	Complete	FMO-5	MON	036N	073W	20	SE1/4SE1/4	0	600	363.65	-105.63691	43.072
P90407.0W	12/14/1992	Complete	FMO-6	MON	036N	073W	20	SE1/4SE1/4	0	600	320.6	-105.63691	43.072
P90424.0W	12/14/1992	Complete	FMP-2	MON	036N	073W	20	SW1/4SE1/4	0	820	373.13	-105.64176	43.07201
P90425.0W	12/14/1992	Complete	FMP-3	MON	036N	073W	20	SW1/4SE1/4	0	780	376.72	-105.64176	43.07201
P90426.0W	12/14/1992	Complete	FMP-4	MON	036N	073W	20	SW1/4SE1/4	0	785	379.14	-105.64176	43.07201
P90427.0W	12/14/1992	Complete	FMP-5	MON	036N	073W	20	SE1/4SE1/4	0	900	376.3	-105.63691	43.072
P90428.0W	12/14/1992	Complete	FMP-6	MON	036N	073W	20	SE1/4SE1/4	0	770	367.61	-105.63691	43.072
P90445.0W	12/14/1992	Complete	FMU-2	MON	036N	073W	20	SW1/4SE1/4	0	960	398.7	-105.64176	43.07201
P90446.0W	12/14/1992	Complete	FMU-3	MON	036N	073W	20	SW1/4SE1/4	0	960	421.35	-105.64176	43.07201
P90447.0W	12/14/1992	Complete	FMU-4	MON	036N	073W	20	SW1/4SE1/4	0	960	401.31	-105.64176	43.07201
P90448.0W	12/14/1992	Complete	FMU-5	MON	036N	073W	20	SE1/4SE1/4	0	900	418.88	-105.63691	43.072
P90449.0W	12/14/1992	Complete	FMU-6	MON	036N	073W	20	SE1/4SE1/4	0	880	384.01	-105.63691	43.072
P47385.0W	04/10/1979	Complete	W H 60 1	MON	036N	073W	21	SW1/4SW1/4	0	672	393	-105.63191	43.07203
P47386.0W	04/10/1979	Complete	W H 60 2	MON	036N	073W	21	SE1/4SW1/4	0	658	397	-105.62703	43.0721
P47387.0W	04/10/1979	Complete	W H 60 3	MON	036N	073W	21	SE1/4SE1/4	0	615	389	-105.61726	43.07226
P47392.0W	04/10/1979	Complete	W H 50 5	MON	036N	073W	21	NW1/4SW1/4	0	745	440	-105.63194	43.07568
P47393.0W	04/10/1979	Complete	W H 50 6	MON	036N	073W	21	NE1/4SW1/4	0	720	400	-105.62704	43.07575
P47394.0W	04/10/1979	Complete	W H 50 7	MON	036N	073W	21	SW1/4NE1/4	0	708	390	-105.62214	43.07946
P47400.0W	04/10/1979	Complete	W H 40 2	MON	036N	073W	21	SW1/4NE1/4	0	770	392	-105.62214	43.07946
P47401.0W	04/10/1979	Complete	W H 40 3	MON	036N	073W	21	NE1/4SE1/4	0	714	347	-105.61723	43.07766
P90364.0W	12/14/1992	Complete	FM-14(U)	MON	036N	073W	21	SE1/4SE1/4	0	650	363.33	-105.61726	43.07226
P90365.0W	12/14/1992	Complete	FM-15(U)	MON	036N	073W	21	SE1/4SE1/4	0	660	370.94	-105.61726	43.07226
P90366.0W	12/14/1992	Complete	FM-16(U)	MON	036N	073W	21	SE1/4SE1/4	0	650	367.54	-105.61726	43.07226
P90367.0W	12/14/1992	Complete	FM-17(L)	MON	036N	073W	21	SW1/4SE1/4	0	740	322.48	-105.62214	43.07218
P90368.0W	12/14/1992	Complete	FM-18(L)	MON	036N	073W	21	SW1/4SE1/4	0	750	339.55	-105.62214	43.07218
P90390.0W	12/14/1992	Complete	FM-40(M)	MON	036N	073W	21	NW1/4SW1/4	0	760	371.9	-105.63194	43.07568
P90391.0W	12/14/1992	Complete	FM-41(M)	MON	036N	073W	21	NW1/4SW1/4	0	725	363.21	-105.63194	43.07568
P90392.0W	12/14/1992	Complete	FM-42(M)	MON	036N	073W	21	NW1/4SW1/4	0	730	354.52	-105.63194	43.07568
P90393.0W	12/14/1992	Complete	FM-43(M)	MON	036N	073W	21	SW1/4NW1/4	0	730	364.39	-105.63197	43.07944
P90394.0W	12/14/1992	Complete	FM-44(M)	MON	036N	073W	21	SE1/4NW1/4	0	720	355.5	-105.62705	43.07945
P90395.0W	12/14/1992	Complete	FM-45(M)	MON	036N	073W	21	SE1/4NW1/4	0	720	355.65	-105.62705	43.07945
P90396.0W	12/14/1992	Complete	FM-46(M)	MON	036N	073W	21	SW1/4NE1/4	0	720	355.18	-105.62214	43.07946
P90397.0W	12/14/1992	Complete	FM-47(M)	MON	036N	073W	21	SW1/4NE1/4	0	700	382	-105.62214	43.07946
P90398.0W	12/14/1992	Complete	FM-48(M)	MON	036N	073W	21	SE1/4NE1/4	0	699.7	380	-105.61722	43.07951
P90399.0W	12/14/1992	Complete	FM-49(M)	MON	036N	073W	21	SE1/4NE1/4	0	680	384	-105.61722	43.07951

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P90400.0W	12/14/1992	Complete	FM-50(M)	MON	036N	073W	21	SE1/4NE1/4	0	680	386	-105.61722	43.07951
P90408.0W	12/14/1992	Complete	FMO-7	MON	036N	073W	21	SW1/4SW1/4	0	600	318.54	-105.63191	43.07203
P90409.0W	12/14/1992	Complete	FMO-8	MON	036N	073W	21	NW1/4SW1/4	0	570	272.75	-105.63194	43.07568
P90410.0W	12/14/1992	Complete	FMO-9	MON	036N	073W	21	SW1/4SW1/4	0	570	320.7	-105.63191	43.07203
P90411.0W	12/14/1992	Complete	FMO-10	MON	036N	073W	21	SW1/4SW1/4	0	550	294.3	-105.63191	43.07203
P90413.0W	12/14/1992	Complete	FMO-12	MON	036N	073W	21	SE1/4SW1/4	0	570	298.74	-105.62703	43.0721
P90414.0W	12/14/1992	Complete	FMO-13	MON	036N	073W	21	SW1/4SE1/4	0	570	295.32	-105.62214	43.07218
P90415.0W	12/14/1992	Complete	FMO-14	MON	036N	073W	21	SW1/4NE1/4	0	550	273.26	-105.62214	43.07946
P90416.0W	12/14/1992	Complete	FMO-15	MON	036N	073W	21	NW1/4SE1/4	0	500	234.32	-105.62047	43.07765
P90417.0W	12/14/1992	Complete	FMO-16	MON	036N	073W	21	SE1/4NE1/4	0	470	250.43	-105.61722	43.07951
P90418.0W	12/14/1992	Complete	FMO-17	MON	036N	073W	21	SE1/4NE1/4	0	460	329.85	-105.61722	43.07951
P90420.0W	12/14/1992	Complete	FMO-19	MON	036N	073W	21	NE1/4SE1/4	0	500	228.2	-105.61723	43.07766
P90421.0W	12/14/1992	Complete	FMO-20	MON	036N	073W	21	NE1/4SE1/4	0	530	278.25	-105.61723	43.07766
P90429.0W	12/14/1992	Complete	FMP-7	MON	036N	073W	21	SW1/4SW1/4	0	770	374.5	-105.63191	43.07203
P90430.0W	12/14/1992	Complete	FMP-8	MON	036N	073W	21	NW1/4SW1/4	0	730	359.3	-105.63194	43.07568
P90431.0W	12/14/1992	Complete	FMP-9	MON	036N	073W	21	SW1/4SW1/4	0	770	366	-105.63191	43.07203
P90432.0W	12/14/1992	Complete	FMP-10	MON	036N	073W	21	SW1/4SW1/4	0	675	411.68	-105.63191	43.07203
P90434.0W	12/14/1992	Complete	FMP-12	MON	036N	073W	21	SE1/4SW1/4	0	670	356.2	-105.62703	43.0721
P90435.0W	12/14/1992	Complete	FMP-13	MON	036N	073W	21	SW1/4SE1/4	0	780	356.6	-105.62214	43.07218
P90436.0W	12/14/1992	Complete	FMP-14	MON	036N	073W	21	SW1/4NE1/4	0	700	316.38	-105.62214	43.07946
P90437.0W	12/14/1992	Complete	FMP-15	MON	036N	073W	21	NW1/4SE1/4	0	720	300.42	-105.62047	43.07765
P90438.0W	12/14/1992	Complete	FMP-16	MON	036N	073W	21	SE1/4NE1/4	0	670	327.21	-105.61722	43.07951
P90439.0W	12/14/1992	Complete	FMP-17	MON	036N	073W	21	SE1/4NE1/4	0	640	306.35	-105.61722	43.07951
P90441.0W	12/14/1992	Complete	FMP-19	MON	036N	073W	21	NE1/4SE1/4	0	698	312.72	-105.61723	43.07766
P90442.0W	12/14/1992	Complete	FMP-20	MON	036N	073W	21	NE1/4SE1/4	0	635	337.4	-105.61723	43.07766
P90450.0W	12/14/1992	Complete	FMU-7	MON	036N	073W	21	SW1/4SW1/4	0	880	423.6	-105.63191	43.07203
P90451.0W	12/14/1992	Complete	FMU-8	MON	036N	073W	21	NW1/4SW1/4	0	860	405.5	-105.63194	43.07568
P90452.0W	12/14/1992	Complete	FMU-9	MON	036N	073W	21	SW1/4SW1/4	0	880	413.35	-105.63191	43.07203
P90453.0W	12/14/1992	Complete	FMU-10	MON	036N	073W	21	SW1/4SW1/4	0	900	365.84	-105.63191	43.07203
P90455.0W	12/14/1992	Complete	FMU-12	MON	036N	073W	21	SE1/4SW1/4	0	880	398.16	-105.62703	43.0721
P90456.0W	12/14/1992	Complete	FMU-13	MON	036N	073W	21	SW1/4SE1/4	0	860	349.48	-105.62214	43.07218
P90457.0W	12/14/1992	Complete	FMU-14	MON	036N	073W	21	SW1/4NE1/4	0	820	352.35	-105.62214	43.07946
P90458.0W	12/14/1992	Complete	FMU-15	MON	036N	073W	21	NW1/4SE1/4	0	770	334.7	-105.62047	43.07765
P90459.0W	12/14/1992	Complete	FMU-16	MON	036N	073W	21	SE1/4NE1/4	0	840	339.9	-105.61722	43.07951
P90460.0W	12/14/1992	Complete	FMU-17	MON	036N	073W	21	SE1/4NE1/4	0	860	339.27	-105.61722	43.07951
P90462.0W	12/14/1992	Complete	FMU-19	MON	036N	073W	21	NE1/4SE1/4	0	800	326.42	-105.61723	43.07766
P90463.0W	12/14/1992	Complete	FMU-20	MON	036N	073W	21	NE1/4SE1/4	0	800	368.57	-105.61723	43.07766
P90704.0W	01/27/1993	Complete	FT-6(L)	MON	036N	073W	21	SW1/4SW1/4	0	820	360.52	-105.63191	43.07203
P90706.0W	01/27/1993	Complete	FT-8(M)	MON	036N	073W	21	SE1/4SW1/4	0	750	356.85	-105.62703	43.0721
P90707.0W	01/27/1993	Complete	FT-9(U)	MON	036N	073W	21	SW1/4SW1/4	0	680	369.15	-105.63191	43.07203
P90708.0W	01/27/1993	Complete	FT-10(U)	MON	036N	073W	21	SE1/4SW1/4	0	670	364.4	-105.62703	43.0721
P90709.0W	01/27/1993	Complete	FT-11(M)	MON	036N	073W	21	NE1/4SW1/4	0	720	354.4	-105.62704	43.07575
P90710.0W	01/27/1993	Complete	FT-12(L)	MON	036N	073W	21	NW1/4SE1/4	0	780	357.9	-105.62047	43.07765
P90711.0W	01/27/1993	Complete	FT-13(L)	MON	036N	073W	21	SE1/4SE1/4	0	760	371.8	-105.61726	43.07226

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P90712.0W	01/27/1993	Complete	FT-14(M)	MON	036N	073W	21	NE1/4SE1/4	0	720	370.2	-105.61723	43.07766
P90713.0W	01/27/1993	Complete	FT-15(U)	MON	036N	073W	21	NE1/4SE1/4	0	550	293.85	-105.61723	43.07766
P90717.0W	01/27/1993	Complete	FT-19(L)	MON	036N	073W	21	SE1/4NE1/4	0	680	249.73	-105.61722	43.07951
P114913.0W	04/07/1999	Complete	DMP-11	MON	036N	073W	22	SW1/4NE1/4	0	700	356.04	-105.60248	43.07952
P114914.0W	04/07/1999	Complete	DMP-12	MON	036N	073W	22	NE1/4SW1/4	0	700	330.06	-105.60743	43.0759
P119557.0W	10/05/1999	Complete	DM-20	MON	036N	073W	22	NW1/4SE1/4	0	665	350.12	-105.60252	43.07589
P119558.0W	10/05/1999	Complete	DM-21	MON	036N	073W	22	NW1/4SE1/4	0	670	348.18	-105.60252	43.07589
P119559.0W	10/05/1999	Complete	DM-22	MON	036N	073W	22	NW1/4SE1/4	0	685	356.22	-105.60252	43.07589
P119560.0W	10/05/1999	Complete	DM-23	MON	036N	073W	22	NE1/4SW1/4	0	686	345.58	-105.60743	43.0759
P119561.0W	10/05/1999	Complete	DM-24	MON	036N	073W	22	NE1/4SW1/4	0	690	399.87	-105.60743	43.0759
P119562.0W	10/05/1999	Complete	DM-25	MON	036N	073W	22	SE1/4NW1/4	0	665	317.9	-105.6074	43.07953
P119563.0W	10/05/1999	Complete	DM-27	MON	036N	073W	22	SW1/4NE1/4	0	695	371.25	-105.60248	43.07952
P119564.0W	10/05/1999	Complete	DM-28	MON	036N	073W	22	SW1/4NE1/4	0	690	384.85	-105.60248	43.07952
P119565.0W	10/05/1999	Complete	DM-29	MON	036N	073W	22	NW1/4NE1/4	0	690	382.3	-105.60486	43.08316
P119566.0W	10/05/1999	Complete	DMO-6	MON	036N	073W	22	NE1/4SW1/4	0	610	313.3	-105.60743	43.0759
P119567.0W	10/05/1999	Complete	DMU-6	MON	036N	073W	22	NE1/4SW1/4	0	710	330.25	-105.60743	43.0759
P119568.0W	10/05/1999	Complete	DMU-7	MON	036N	073W	22	SW1/4NE1/4	0	770	402.92	-105.60248	43.07952
P119569.0W	10/05/1999	Complete	DMU-8	MON	036N	073W	22	SW1/4NE1/4	0	750	368.8	-105.60248	43.07952
P119570.0W	10/05/1999	Complete	DMU-9	MON	036N	073W	22	NW1/4SW1/4	0	750	372.95	-105.61233	43.07591
P119571.0W	10/05/1999	Complete	DMT-1	MON	036N	073W	22	NE1/4SW1/4	0	745	367.53	-105.60743	43.0759
P128970.0W	09/01/2000	Complete	DMU-10	MON	036N	073W	22	NW1/4SW1/4	0	840	394.7	-105.61233	43.07591
P47395.0W	04/10/1979	Complete	W H 50 8	MON	036N	073W	22	SW1/4NW1/4	0	620	325	-105.61231	43.07954
P47396.0W	04/10/1979	Complete	W H 50 9	MON	036N	073W	22	SE1/4NW1/4	0	585	309	-105.6074	43.07953
P47397.0W	04/10/1979	Complete	W H 50 10	MON	036N	073W	22	NW1/4NE1/4	0	640	376	-105.60486	43.08316
P82914.0W	07/13/1990	Complete	DMU-1	MON	036N	073W	22	SE1/4NE1/4	0	754.1	409.6	-105.59757	43.07951
P82915.0W	07/13/1990	Complete	DMU-2	MON	036N	073W	22	NE1/4NE1/4	0	730	402.5	-105.59753	43.08317
P82919.0W	07/13/1990	Complete	DMO-1	MON	036N	073W	22	SE1/4NE1/4	0	612.95	363	-105.59757	43.07951
P82920.0W	07/13/1990	Complete	DMO-2	MON	036N	073W	22	NE1/4NE1/4	0	587.4	370	-105.59753	43.08317
P82933.0W	07/13/1990	Complete	DM-10	MON	036N	073W	22	SE1/4NE1/4	0	688.1	392	-105.59757	43.07951
P82934.0W	07/13/1990	Complete	DM-11	MON	036N	073W	22	SE1/4NE1/4	0	688	383.1	-105.59757	43.07951
P82935.0W	07/13/1990	Complete	DM-12	MON	036N	073W	22	SE1/4NE1/4	0	675.4	373.7	-105.59757	43.07951
P82936.0W	07/13/1990	Complete	DM-13	MON	036N	073W	22	SE1/4NE1/4	0	661.4	355.1	-105.59757	43.07951
P82937.0W	07/13/1990	Complete	DM-14	MON	036N	073W	22	SW1/4NE1/4	0	684.6	366.9	-105.60248	43.07952
P82938.0W	07/13/1990	Complete	DM-15	MON	036N	073W	22	SW1/4NE1/4	0	690	372.8	-105.60248	43.07952
P82939.0W	07/13/1990	Complete	DM-16	MON	036N	073W	22	NE1/4NE1/4	0	682.4	362.6	-105.59753	43.08317
P82940.0W	07/13/1990	Complete	DM-17	MON	036N	073W	22	NE1/4NE1/4	0	666.5	342.6	-105.59753	43.08317
P82941.0W	07/13/1990	Complete	DM-18	MON	036N	073W	22	NE1/4NE1/4	0	679.75	352.3	-105.59753	43.08317
P82942.0W	07/13/1990	Complete	DM-19	MON	036N	073W	22	NE1/4NE1/4	0	660.4	350	-105.59753	43.08317
P84398.0W	02/07/1991	Complete	EM-9	MON	036N	073W	22	NE1/4SE1/4	0	630	361.34	-105.59761	43.07588
P84399.0W	02/07/1991	Complete	EM-10	MON	036N	073W	22	NE1/4SE1/4	0	640	360.65	-105.59761	43.07588
P84400.0W	02/07/1991	Complete	EM-11	MON	036N	073W	22	NW1/4SE1/4	0	640	357.6	-105.60252	43.07589
P84401.0W	02/07/1991	Complete	EM-12	MON	036N	073W	22	NW1/4SE1/4	0	650	353.59	-105.60252	43.07589
P84402.0W	02/07/1991	Complete	EM-13	MON	036N	073W	22	NW1/4SE1/4	0	640	353.93	-105.60252	43.07589
P84403.0W	02/07/1991	Complete	EM-14	MON	036N	073W	22	NE1/4SW1/4	0	630	312.58	-105.60743	43.0759

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P84404.0W	02/07/1991	Complete	EM-15	MON	036N	073W	22	NW1/4SW1/4	0	660	343.92	-105.61233	43.07591
P84405.0W	02/07/1991	Complete	EM-16	MON	036N	073W	22	NW1/4SW1/4	0	660	334.3	-105.61233	43.07591
P84406.0W	02/07/1991	Complete	EM-17	MON	036N	073W	22	SW1/4NW1/4	0	630	285.76	-105.61231	43.07954
P84407.0W	02/07/1991	Complete	EM-18	MON	036N	073W	22	SW1/4NW1/4	0	650	304.2	-105.61231	43.07954
P84408.0W	02/07/1991	Complete	EM-19	MON	036N	073W	22	NW1/4NW1/4	0	610	273.55	-105.61228	43.08316
P84409.0W	02/07/1991	Complete	EM-20	MON	036N	073W	22	NE1/4NW1/4	0	610	301.08	-105.60736	43.08316
P84410.0W	02/07/1991	Complete	EM-21	MON	036N	073W	22	NE1/4NW1/4	0	630	341.03	-105.60736	43.08316
P84411.0W	02/07/1991	Complete	EM-22	MON	036N	073W	22	NE1/4NW1/4	0	630	325.58	-105.60736	43.08316
P84418.0W	02/07/1991	Complete	EMU-1	MON	036N	073W	22	SE1/4NW1/4	0	690	279.2	-105.6074	43.07953
P84419.0W	02/07/1991	Complete	EMU-2	MON	036N	073W	22	SE1/4NW1/4	0	680	324.92	-105.6074	43.07953
P84420.0W	02/07/1991	Complete	EMU-3	MON	036N	073W	22	SE1/4NW1/4	0	700	338.35	-105.6074	43.07953
P84421.0W	02/07/1991	Complete	EMU-4	MON	036N	073W	22	NW1/4NE1/4	0	700	364.2	-105.60486	43.08316
P84422.0W	02/07/1991	Complete	EMU-5	MON	036N	073W	22	NW1/4NE1/4	0	700	368.3	-105.60486	43.08316
P84423.0W	02/07/1991	Complete	EMU-6	MON	036N	073W	22	NW1/4NE1/4	0	710	370.38	-105.60486	43.08316
P84424.0W	02/07/1991	Complete	EMU-7	MON	036N	073W	22	NW1/4NE1/4	0			-105.60486	43.08316
P84426.0W	02/07/1991	Complete	EMU-12	MON	036N	073W	22	SE1/4NE1/4	0	670	356.74	-105.59757	43.07951
P84427.0W	02/07/1991	Complete	EMU-13	MON	036N	073W	22	NE1/4SE1/4	0	690	357.19	-105.59761	43.07588
P84428.0W	02/07/1991	Complete	EMU-14	MON	036N	073W	22	NE1/4SE1/4	0	680	362.19	-105.59761	43.07588
P84429.0W	02/07/1991	Complete	EMSHO-1	MON	036N	073W	22	SE1/4NE1/4	0	560	362.5	-105.59757	43.07951
P84430.0W	02/07/1991	Complete	ET-1	MON	036N	073W	22	NE1/4NE1/4	0	610	339.84	-105.59753	43.08317
P84431.0W	02/07/1991	Complete	ET-2	MON	036N	073W	22	NE1/4NE1/4	0	630	355.67	-105.59753	43.08317
P84432.0W	02/07/1991	Complete	ET-3	MON	036N	073W	22	SE1/4NE1/4	0	640	369.28	-105.59757	43.07951
P84433.0W	02/07/1991	Complete	ET-4	MON	036N	073W	22	SW1/4NE1/4	0	640	357.7	-105.60248	43.07952
P84434.0W	02/07/1991	Complete	ET-5	MON	036N	073W	22	SW1/4NE1/4	0	630	322.14	-105.60248	43.07952
P84435.0W	02/07/1991	Complete	ET-6	MON	036N	073W	22	SW1/4NE1/4	0	630	289.62	-105.60248	43.07952
P84842.0W	04/08/1991	Complete	EMO-2	MON	036N	073W	22	SE1/4NW1/4	0	420	233.03	-105.6074	43.07953
P84843.0W	04/08/1991	Complete	EMO-3	MON	036N	073W	22	SE1/4NW1/4	0	520	317.85	-105.6074	43.07953
P84844.0W	04/08/1991	Complete	EMO-4	MON	036N	073W	22	NW1/4NE1/4	0	550	322.49	-105.60486	43.08316
P84845.0W	04/08/1991	Complete	EMO-5	MON	036N	073W	22	NW1/4NE1/4	0	450	264.54	-105.60486	43.08316
P84846.0W	04/08/1991	Complete	EMO-7	MON	036N	073W	22	NW1/4NE1/4	0	490	258.24	-105.60486	43.08316
P84849.0W	04/08/1991	Complete	EMO-10	MON	036N	073W	22	SE1/4NE1/4	0	565	382.8	-105.59757	43.07951
P84850.0W	04/08/1991	Complete	EMO-13	MON	036N	073W	22	NE1/4SE1/4	0	435	202.98	-105.59761	43.07588
P84851.0W	04/08/1991	Complete	EMO-15	MON	036N	073W	22	SE1/4NE1/4	0	560	350.47	-105.59757	43.07951
P90351.0W	12/14/1992	Complete	FM-1(M)	MON	036N	073W	22	SW1/4NW1/4	0	590	291.9	-105.61231	43.07954
P90352.0W	12/14/1992	Complete	FM-2(M)	MON	036N	073W	22	SW1/4NW1/4	0	620	301.86	-105.61231	43.07954
P90353.0W	12/14/1992	Complete	FM-3(L)	MON	036N	073W	22	SW1/4NW1/4	0	740	326.7	-105.61231	43.07954
P90354.0W	12/14/1992	Complete	FM-4(L)	MON	036N	073W	22	NW1/4SW1/4	0	740	348.03		
P90355.0W	12/14/1992	Complete	FM-5(L)	MON	036N	073W	22	NW1/4SW1/4	0	740	343.78	-105.61233	43.07591
P90356.0W	12/14/1992	Complete	FM-6(U)	MON	036N	073W	22	NW1/4SW1/4	0	628.5	349.12	-105.61233	43.07591
P90357.0W	12/14/1992	Complete	FM-7(U)	MON	036N	073W	22	NE1/4SW1/4	0	610	343.38	-105.60743	43.0759
P90358.0W	12/14/1992	Complete	FM-8(U)	MON	036N	073W	22	SE1/4SW1/4	0	590	337.09	-105.60747	43.07227
P90359.0W	12/14/1992	Complete	FM-9(U)	MON	036N	073W	22	SE1/4SW1/4	0	605	340.12	-105.60747	43.07227
P90360.0W	12/14/1992	Complete	FM-10(U)	MON	036N	073W	22	SE1/4SW1/4	0	615	360.46	-105.60747	43.07227
P90361.0W	12/14/1992	Complete	FM-11(U)	MON	036N	073W	22	SE1/4SW1/4	0	610	352.16	-105.60747	43.07227

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P90362.0W	12/14/1992	Complete	FM-12(U)	MON	036N	073W	22	SW1/4SW1/4	0	620	356.95	-105.6123	43.07229
P90363.0W	12/14/1992	Complete	FM-13(U)	MON	036N	073W	22	SW1/4SW1/4	0	620	354.27	-105.6123	43.07229
P90419.0W	12/14/1992	Complete	FMO-18	MON	036N	073W	22	SW1/4NW1/4	0	500	215.88	-105.61231	43.07954
P90422.0W	12/14/1992	Complete	FMO-21	MON	036N	073W	22	SW1/4SW1/4	0	520	271	-105.6123	43.07229
P90440.0W	12/14/1992	Complete	FMP-18	MON	036N	073W	22	SW1/4NW1/4	0	610	253.44	-105.61231	43.07954
P90443.0W	12/14/1992	Complete	FMP-21	MON	036N	073W	22	SW1/4SW1/4	0	610	312.91	-105.6123	43.07229
P90461.0W	12/14/1992	Complete	FMU-18	MON	036N	073W	22	SW1/4NW1/4	0	780	343.2	-105.61231	43.07954
P90464.0W	12/14/1992	Complete	FMU-21	MON	036N	073W	22	SW1/4SW1/4	0	760	373.8	-105.6123	43.07229
P90714.0W	01/27/1993	Complete	FT-16(L)	MON	036N	073W	22	NW1/4SW1/4	0	750	335.2	-105.61233	43.07591
P90715.0W	01/27/1993	Complete	FT-17(U)	MON	036N	073W	22	NW1/4SW1/4	0	600	327.31	-105.61233	43.07591
P90716.0W	01/27/1993	Complete	FT-18(M)	MON	036N	073W	22	NW1/4SW1/4	0	680	336.6	-105.61233	43.07591
P151872.0W	06/06/2003	Complete	IM-1	MON	036N	073W	23	NE1/4SE1/4	0	653	421.29	-105.57779	43.07599
P151890.0W	06/06/2003	Complete	IM-22	MON	036N	073W	23	NE1/4SE1/4	0	670	437.56	-105.57779	43.07599
P151891.0W	06/06/2003	Complete	IM-21	MON	036N	073W	23	NE1/4SE1/4	0	660	441.73	-105.57779	43.07599
P151892.0W	06/06/2003	Complete	IM-20	MON	036N	073W	23	SE1/4SE1/4	0	633	425.71	-105.57774	43.07236
P77478.0W	07/20/1988	Complete	CM 18	MON	036N	073W	23	NE1/4NW1/4	0	600	347	-105.58756	43.08311
P77479.0W	07/20/1988	Complete	CM 19	MON	036N	073W	23	NE1/4NW1/4	0	600	348	-105.58756	43.08311
P77480.0W	07/20/1988	Complete	CM 20	MON	036N	073W	23	NE1/4NW1/4	0	610	358	-105.58756	43.08311
P77481.0W	07/20/1988	Complete	CM 21	MON	036N	073W	23	NE1/4NW1/4	0	610	368	-105.58756	43.08311
P77482.0W	07/20/1988	Complete	CM 22	MON	036N	073W	23	NW1/4NW1/4	0	610	384	-105.59254	43.08309
P80710.0W	09/18/1989	Complete	CRMW 2	MON	036N	073W	23	NE1/4NW1/4	0			-105.58756	43.08311
P82913.0W	07/13/1990	Complete	DSH-1	MON	036N	073W	23	NW1/4NW1/4	0	628	353.4	-105.59254	43.08309
P82916.0W	07/13/1990	Complete	DMU-3	MON	036N	073W	23	NW1/4NW1/4	0	743	411.8	-105.59254	43.08309
P82917.0W	07/13/1990	Complete	DMU-4	MON	036N	073W	23	SW1/4NW1/4	0	739.5	426.3	-105.59261	43.07953
P82918.0W	07/13/1990	Complete	DMU-5	MON	036N	073W	23	SW1/4NW1/4	0	738	424.9	-105.59261	43.07953
P82921.0W	07/13/1990	Complete	DMO-3	MON	036N	073W	23	NW1/4NW1/4	0	592.5	383.1	-105.59254	43.08309
P82922.0W	07/13/1990	Complete	DMO-4	MON	036N	073W	23	SW1/4NW1/4	0	609.7	393.1	-105.59261	43.07953
P82923.0W	07/13/1990	Complete	DMO-5	MON	036N	073W	23	SW1/4NW1/4	0	600	387.5	-105.59261	43.07953
P82924.0W	07/13/1990	Complete	DM-1	MON	036N	073W	23	NW1/4NW1/4	0	653	359.5	-105.59254	43.08309
P82925.0W	07/13/1990	Complete	DM-2	MON	036N	073W	23	NW1/4NW1/4	0	677	380.1	-105.59254	43.08309
P82926.0W	07/13/1990	Complete	DM-3	MON	036N	073W	23	NW1/4NW1/4	0	690.4	388.3	-105.59254	43.08309
P82927.0W	07/13/1990	Complete	DM-4	MON	036N	073W	23	NE1/4NW1/4	0	680	383.8	-105.58756	43.08311
P82928.0W	07/13/1990	Complete	DM-5	MON	036N	073W	23	SE1/4NW1/4	0	684.4	392.4	-105.58761	43.07956
P82929.0W	07/13/1990	Complete	DM-6	MON	036N	073W	23	SE1/4NW1/4	0	691.4	398.8	-105.58761	43.07956
P82930.0W	07/13/1990	Complete	DM-7	MON	036N	073W	23	SW1/4NW1/4	0	686	399.3	-105.59261	43.07953
P82931.0W	07/13/1990	Complete	DM-8	MON	036N	073W	23	SW1/4NW1/4	0	683.4	394.4	-105.59261	43.07953
P82932.0W	07/13/1990	Complete	DM-9	MON	036N	073W	23	SW1/4NW1/4	0	686.6	392.5	-105.59261	43.07953
P83069.0W	07/27/1990	Complete	DSH-2	MON	036N	073W	23	NW1/4NW1/4	0	692	365	-105.59254	43.08309
P84388.0W	02/07/1991	Complete	DMD-1	MON	036N	073W	23	NW1/4NW1/4	0	658	404	-105.59254	43.08309
P84389.0W	02/07/1991	Complete	DMD-2	MON	036N	073W	23	SW1/4NW1/4	0	676	389	-105.59261	43.07953
P84390.0W	02/07/1991	Incomplete	EM-1	MON	036N	073W	23	NE1/4NW1/4	0	620	378.34	-105.58756	43.08311
P84391.0W	02/07/1991	Incomplete	EM-2	MON	036N	073W	23	NE1/4NW1/4	0	630	389.6	-105.58756	43.08311
P84392.0W	02/07/1991	Complete	EM-3	MON	036N	073W	23	SE1/4NW1/4	0	630	391.75	-105.58761	43.07956
P84393.0W	02/07/1991	Complete	EM-4	MON	036N	073W	23	SE1/4NW1/4	0	630	389.12	-105.58761	43.07956

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P84394.0W	02/07/1991	Complete	EM-5	MON	036N	073W	23	SE1/4NW1/4	0	630	383.75	-105.58761	43.07956
P84395.0W	02/07/1991	Complete	EM-6	MON	036N	073W	23	SW1/4NW1/4	0	630	374.7	-105.59261	43.07953
P84396.0W	02/07/1991	Complete	EM-7	MON	036N	073W	23	NW1/4SW1/4	0	630	371.93	-105.59266	43.07589
P84397.0W	02/07/1991	Complete	EM-8	MON	036N	073W	23	NW1/4SW1/4	0	630	370.01	-105.59266	43.07589
P84848.0W	04/08/1991	Complete	EMO-9	MON	036N	073W	23	NW1/4NW1/4	0	520	370.08	-105.59254	43.08309
P84852.0W	04/08/1991	Complete	EMO-16	MON	036N	073W	23	SW1/4NW1/4	0	530	307.83	-105.59261	43.07953
P151873.0W	06/06/2003	Complete	IMO-6	MON	036N	073W	24	NW1/4SW1/4	0	593	396.89	-105.57273	43.07603
P151874.0W	06/06/2003	Complete	IMO-5	MON	036N	073W	24	SW1/4SW1/4	0	594	393.93	-105.5728	43.07115
P151875.0W	06/06/2003	Complete	IMO-4	MON	036N	073W	24	NE1/4SW1/4	0	540	344.03	-105.56785	43.07608
P151876.0W	06/06/2003	Complete	IMO-3	MON	036N	073W	24	SE1/4SW1/4	0	533	340.83	-105.56789	43.07113
P151877.0W	06/06/2003	Complete	IMO-2	MON	036N	073W	24	NE1/4SW1/4	0	515	306.72	-105.56785	43.07608
P151878.0W	06/06/2003	Complete	IMU-7	MON	036N	073W	24	NW1/4SW1/4	0	787	435.07	-105.57273	43.07603
P151879.0W	06/06/2003	Complete	IMU-6	MON	036N	073W	24	SW1/4SW1/4	0	790	442.33	-105.5728	43.07115
P151880.0W	06/06/2003	Complete	IMU-5	MON	036N	073W	24	NE1/4SW1/4	0	723	390.11	-105.56785	43.07608
P151881.0W	06/06/2003	Complete	IMU-4	MON	036N	073W	24	SE1/4SW1/4	0	724	390.27	-105.56789	43.07113
P151882.0W	06/06/2003	Complete	IMU-3	MON	036N	073W	24	NW1/4SE1/4	0	703	362.81	-105.56297	43.07613
P151883.0W	06/06/2003	Complete	IMU-2	MON	036N	073W	24	NE1/4SW1/4	0	745	402	-105.56785	43.07608
P151884.0W	06/06/2003	Complete	IMP-7	MON	036N	073W	24	NW1/4SW1/4	0	662	436.38	-105.57273	43.07603
P151885.0W	06/06/2003	Complete	IMP-6	MON	036N	073W	24	SW1/4SW1/4	0	652	440.72	-105.5728	43.07115
P151886.0W	06/06/2003	Complete	IMP-5	MON	036N	073W	24	NE1/4SW1/4	0	645	395.31	-105.56785	43.07608
P151887.0W	06/06/2003	Complete	IMP-4	MON	036N	073W	24	SE1/4SW1/4	0	641	388.82	-105.56789	43.07113
P151888.0W	06/06/2003	Complete	IMP-3	MON	036N	073W	24	NW1/4SE1/4	0	553	345.29	-105.56297	43.07613
P151889.0W	06/06/2003	Complete	IMP-2	MON	036N	073W	24	NE1/4SW1/4	0	635	403.9	-105.56785	43.07608
P151893.0W	06/06/2003	Complete	IM-19	MON	036N	073W	24	SW1/4SW1/4	0	633	421.37	-105.5728	43.07115
P151894.0W	06/06/2003	Complete	IM-18	MON	036N	073W	24	SW1/4SW1/4	0	618	418.76	-105.5728	43.07115
P151895.0W	06/06/2003	Complete	IM-17	MON	036N	073W	24	SW1/4SW1/4	0	628	432.02	-105.5728	43.07115
P151896.0W	06/06/2003	Complete	IM-16	MON	036N	073W	24	SE1/4SW1/4	0	682	431.87	-105.56789	43.07113
P151897.0W	06/06/2003	Complete	IM-15	MON	036N	073W	24	SE1/4SW1/4	0	693	433.38	-105.56789	43.07113
P151898.0W	06/06/2003	Complete	IM-14	MON	036N	073W	24	SW1/4SE1/4	0	678	423.88	-105.56299	43.07112
P151899.0W	06/06/2003	Complete	IM-13	MON	036N	073W	24	SW1/4SE1/4	0	583	390.74	-105.56299	43.07112
P151900.0W	06/06/2003	Complete	IM-12	MON	036N	073W	24	SW1/4SE1/4	0	555	356.71	-105.56299	43.07112
P151901.0W	06/06/2003	Complete	IM-11	MON	036N	073W	24	SE1/4SE1/4	0	534	344.07	-105.55808	43.07255
P151902.0W	06/06/2003	Complete	IM-10	MON	036N	073W	24	NE1/4SE1/4	0	507	323.89	-105.55782	43.07618
P151903.0W	06/06/2003	Complete	IM-9	MON	036N	073W	24	NE1/4SE1/4	0	528	339.46	-105.55782	43.07618
P151904.0W	06/06/2003	Complete	IM-8	MON	036N	073W	24	NW1/4SE1/4	0	585	364.42	-105.56297	43.07613
P151905.0W	06/06/2003	Complete	IM-7	MON	036N	073W	24	NW1/4SE1/4	0	621	383.12	-105.56297	43.07613
P151906.0W	06/06/2003	Complete	IM-6	MON	036N	073W	24	SW1/4NE1/4	0	625	387.21	-105.56295	43.0798
P151907.0W	06/06/2003	Complete	IM-5	MON	036N	073W	24	SE1/4NW1/4	0	602	373.8	-105.56781	43.07981
P151908.0W	06/06/2003	Complete	IM-4	MON	036N	073W	24	SE1/4NW1/4	0	623	392.31	-105.56781	43.07981
P151909.0W	06/06/2003	Complete	IM-3	MON	036N	073W	24	SW1/4NW1/4	0	642	418.38	-105.57267	43.07982
P151910.0W	06/06/2003	Complete	IM-2	MON	036N	073W	24	SW1/4NW1/4	0	656	423.96	-105.57267	43.07982
P47402.0W	04/10/1979	Complete	W H 40 4	MON	036N	073W	27	SW1/4NE1/4	0	735	416	-105.60254	43.06497
P47399.0W	04/10/1979	Complete	W H 40 1	MON	036N	073W	28	NW1/4NW1/4	0	795	383	-105.63192	43.06828
P90369.0W	12/14/1992	Complete	FM-19(U)	MON	036N	073W	28	NW1/4NE1/4	0	650	339.25	-105.62215	43.06834

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P90370.0W	12/14/1992	Complete	FM-20(L)	MON	036N	073W	28	NE1/4NW1/4	0	820	350.9	-105.62704	43.06831
P90371.0W	12/14/1992	Complete	FM-21(L)	MON	036N	073W	28	NE1/4NW1/4	0	820	346.37	-105.62704	43.06831
P90372.0W	12/14/1992	Complete	FM-22(L)	MON	036N	073W	28	NE1/4NW1/4	0	820	353.61	-105.62704	43.06831
P90373.0W	12/14/1992	Complete	FM-23(L)	MON	036N	073W	28	SW1/4NW1/4	0	820	352.8	-105.63195	43.06476
P90374.0W	12/14/1992	Complete	FM-24(L)	MON	036N	073W	28	NW1/4NW1/4	0	830	351.76	-105.63192	43.06828
P90412.0W	12/14/1992	Complete	FMO-11	MON	036N	073W	28	NW1/4NW1/4	0	540	259.25	-105.63192	43.06828
P90433.0W	12/14/1992	Complete	FMP-11	MON	036N	073W	28	NW1/4NW1/4	0	820	355.25	-105.63192	43.06828
P90454.0W	12/14/1992	Complete	FMU-11	MON	036N	073W	28	NW1/4NW1/4	0	880	402.45	-105.63192	43.06828
P90703.0W	01/27/1993	Complete	FT-5(M)	MON	036N	073W	28	NW1/4NW1/4	0	770	372.8	-105.63192	43.06828
P90705.0W	01/27/1993	Complete	FT-7(U)	MON	036N	073W	28	NE1/4NW1/4	0	670	354.4	-105.62704	43.06831
P47388.0W	04/10/1979	Complete	W H 50 1	MON	036N	073W	29	SW1/4NE1/4	0	803	409	-105.64176	43.06473
P90375.0W	12/14/1992	Complete	FM-25(L)	MON	036N	073W	29	NE1/4NE1/4	0	860	360.59	-105.63681	43.06836
P90376.0W	12/14/1992	Complete	FM-26(L)	MON	036N	073W	29	SE1/4NE1/4	0	860	376.8	-105.63685	43.06473
P90377.0W	12/14/1992	Complete	FM-27(L)	MON	036N	073W	29	NE1/4NE1/4	0	870	388	-105.63681	43.06836
P90378.0W	12/14/1992	Complete	FM-28(M)	MON	036N	073W	29	NW1/4NE1/4	0	810	376.75	-105.64174	43.06837
P90379.0W	12/14/1992	Complete	FM-29(M)	MON	036N	073W	29	SW1/4NE1/4	0	820	380.9	-105.64176	43.06473
P90380.0W	12/14/1992	Complete	FM-30(M)	MON	036N	073W	29	SE1/4NW1/4	0	820	377.03	-105.64669	43.06474
P90381.0W	12/14/1992	Complete	FM-31(M)	MON	036N	073W	29	SE1/4NW1/4	0	820	380.1	-105.64669	43.06474
P90382.0W	12/14/1992	Complete	FM-32(M)	MON	036N	073W	29	NE1/4NW1/4	0	820	381.05	-105.64668	43.06838
P90383.0W	12/14/1992	Complete	FM-33(M)	MON	036N	073W	29	NE1/4NW1/4	0	840.5	410.95	-105.64668	43.06838
P90402.0W	12/14/1992	Complete	FMO-1	MON	036N	073W	29	NW1/4NE1/4	0	649	455	-105.64174	43.06837
P90423.0W	12/14/1992	Complete	FMP-1	MON	036N	073W	29	NW1/4NE1/4	0	800	375.7	-105.64174	43.06837
P90444.0W	12/14/1992	Complete	FMU-1	MON	036N	073W	29	NW1/4NE1/4	0	880	368.5	-105.64174	43.06837
P90700.0W	01/27/1993	Complete	FT-1(M)	MON	036N	073W	29	NW1/4NE1/4	0	810	332.32	-105.64174	43.06837
P90701.0W	01/27/1993	Complete	FT-2(L)	MON	036N	073W	29	NE1/4NE1/4	0	860	371.33	-105.63681	43.06836
P90702.0W	01/27/1993	Complete	FT-4(U)	MON	036N	073W	29	NE1/4NE1/4	0	700	321.8	-105.63681	43.06836
P172936.0W	01/31/2006		NW/NW30-36-73 (4 Wells) Mine Unit K Monitor Wells	MON	036N	073W	30	NW1/4NW1/4	0			-105.67157	43.06824
P172938.0W	01/31/2006		SW/NW 30-36-73 (6 Wells) Mine Unit K Monitor Wells	MON	036N	073W	30	SW1/4NW1/4	0			-105.67153	43.0646
P172940.0W	01/31/2006		NW/SW 30-36-73 (7Wells) Mine Unit K Monitor Wells	MON	036N	073W	30	NW1/4SW1/4	0			-105.6715	43.06096
P172942.0W	01/31/2006		SW/SW 30-36-73 (1 Wells) Mine Unit K Monitor Wells	MON	036N	073W	30	SW1/4SW1/4	0			-105.67147	43.05733
P183359.0W	09/14/2007	Complete	SW/SW 30-36-73 (1 Well) Mine Unit K Monitor Well Ext.	MON	036N	073W	30	SW1/4SW1/4	0			-105.671469	43.057331
P70183.0W	05/21/1985	Complete	OM 30 376	MON	036N	073W	30	NW1/4SW1/4	0	947	490.2	-105.6715	43.06096
P85942.0W	08/26/1991	Complete	M-8	MON	036N	073W	31	NW1/4NW1/4	0	505	296.57	-105.67145	43.0537
P85943.0W	08/26/1991	Complete	M-9	MON	036N	073W	31	SW1/4NW1/4	0	518	308.53	-105.67143	43.05007
P85944.0W	08/26/1991	Complete	M-10	MON	036N	073W	31	SW1/4NW1/4	0	533	342.58	-105.67143	43.05007
P85945.0W	08/26/1991	Complete	M-11	MON	036N	073W	31	SW1/4NW1/4	0	541	341.86	-105.67143	43.05007
P55553.0W	01/02/1981	Complete	DJ81-UB-7	MON	036N	074W	06	SW1/4SW1/4	0	228	65.1	-105.7893	43.11507
P55554.0W	01/02/1981	Complete	DJ81-SC-7	MON	036N	074W	06	SW1/4SW1/4	0	251.5	69.74	-105.7893	43.11507
P55556.0W	01/02/1981	Complete	DJ81-BA-7	MON	036N	074W	06	SW1/4SW1/4	0	76	48.46	-105.7893	43.11507
P55557.0W	01/02/1981	Complete	DJ81-OB-7	MON	036N	074W	06	SW1/4SW1/4	0	55	46.88	-105.7893	43.11507

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P56082.0W	03/09/1981	Complete	DJ-AW-4	MON	036N	074W	06	SE1/4NW1/4	0	75.9	18.72	-105.78466	43.12241
P59820.0W	02/01/1982	Complete	DJ81-AW-23	MON	036N	074W	07	NW1/4NW1/4	0	99.3	27.19	-105.78931	43.11143
P59821.0W	02/01/1982	Complete	DJ81-AW-22	MON	036N	074W	07	NW1/4NW1/4	0	84.5	25.63	-105.78931	43.11143
P172935.0W	01/31/2006		SE/SE24-36-74 (1 Well) Mine Unit K Monitor Wells	MON	036N	074W	24	SE1/4SE1/4	0			-105.67632	43.07187
P135275.0W	05/25/2001	Complete	M-212	MON	036N	074W	25	SE1/4SW1/4	0	901	333	-105.6851	43.05842
P135276.0W	05/25/2001	Complete	M-213	MON	036N	074W	25	SE1/4SW1/4	0	916	369	-105.6851	43.05842
P135277.0W	05/25/2001	Complete	M-214	MON	036N	074W	25	SE1/4SW1/4	0	940	366	-105.6851	43.05842
P135278.0W	05/25/2001	Complete	M-215	MON	036N	074W	25	NE1/4SW1/4	0	915	355	-105.68598	43.06098
P135279.0W	05/25/2001	Complete	M-216	MON	036N	074W	25	NE1/4SW1/4	0	890	352	-105.68598	43.06098
P135280.0W	05/25/2001	Complete	M-217	MON	036N	074W	25	NE1/4SW1/4	0	905	371	-105.68598	43.06098
P135281.0W	05/25/2001	Complete	M-218	MON	036N	074W	25	NW1/4SW1/4	0	955	404	-105.69089	43.06231
P135282.0W	05/25/2001	Complete	M-219	MON	036N	074W	25	NW1/4SW1/4	0	959	410	-105.69089	43.06231
P135283.0W	05/25/2001	Complete	M-220	MON	036N	074W	25	NW1/4SW1/4	0	926	404	-105.69089	43.06231
P135293.0W	05/25/2001	Complete	MS-206	MON	036N	074W	25	SW1/4SW1/4	0	501	301	-105.69092	43.05737
P135294.0W	05/25/2001	Complete	MS-207	MON	036N	074W	25	NW1/4SW1/4	0	541	331	-105.69089	43.06231
P135295.0W	05/25/2001	Complete	MS-208	MON	036N	074W	25	SW1/4SW1/4	0	480	298	-105.69092	43.05737
P135296.0W	05/25/2001	Complete	MS-209	MON	036N	074W	25	NW1/4SW1/4	0	521	298	-105.69089	43.06231
P135297.0W	05/25/2001	Complete	MS-210	MON	036N	074W	25	SW1/4SW1/4	0	494	291	-105.69092	43.05737
P135298.0W	05/25/2001	Complete	MS-211	MON	036N	074W	25	SW1/4SW1/4	0	520	318	-105.69092	43.05737
P135299.0W	05/25/2001	Complete	MS-212	MON	036N	074W	25	SW1/4SW1/4	0	518	328	-105.69092	43.05737
P135300.0W	05/25/2001	Complete	MS-213	MON	036N	074W	25	SE1/4SW1/4	0	518	321	-105.6851	43.05842
P135306.0W	05/25/2001	Complete	MD-206	MON	036N	074W	25	SW1/4SW1/4	0	958	375	-105.69092	43.05737
P135307.0W	05/25/2001	Complete	MD-207	MON	036N	074W	25	NW1/4SW1/4	0	1021	412	-105.69089	43.06231
P135308.0W	05/25/2001	Complete	MD-208	MON	036N	074W	25	SW1/4SW1/4	0	931	375	-105.69092	43.05737
P135309.0W	05/25/2001	Complete	MD-209	MON	036N	074W	25	SW1/4SW1/4	0	1002	374	-105.69092	43.05737
P135310.0W	05/25/2001	Complete	MD-210	MON	036N	074W	25	SW1/4SW1/4	0	915	368	-105.69092	43.05737
P135311.0W	05/25/2001	Complete	MD-211	MON	036N	074W	25	SW1/4SW1/4	0	977	400	-105.69092	43.05737
P135312.0W	05/25/2001	Complete	MD-212	MON	036N	074W	25	SW1/4SW1/4	0	897	333	-105.69092	43.05737
P135313.0W	05/25/2001	Complete	MD-213	MON	036N	074W	25	SE1/4SW1/4	0	901	324	-105.6851	43.05842
P135340.0W	05/25/2001	Complete	MP-228	MON	036N	074W	25	SW1/4SW1/4	0	861	329	-105.69092	43.05737
P172937.0W	01/31/2006		NE/NE25-36-74 (8 Wells) Mine Unit K Monitor Wells	MON	036N	074W	25	NE1/4NE1/4	0			-105.67627	43.06823
P172939.0W	01/31/2006		SE/NE 25-36-74 (12 Wells) Mine Unit K Monitor Wells	MON	036N	074W	25	SE1/4NE1/4	0			-105.67625	43.06459
P172941.0W	01/31/2006		NE/SE 25-36-74 (12Wells) Mine Unit K Monitor Wells	MON	036N	074W	25	NE1/4SE1/4	0			-105.67624	43.06095
P172943.0W	01/31/2006		SE/SE 25-36-74 (6 Wells) Mine Unit K Monitor Wells	MON	036N	074W	25	SE1/4SE1/4	0			-105.67622	43.05732
P172944.0W	01/31/2006		SW/SE 25-36-74 (2 Wells) Mine Unit K Monitor Wells	MON	036N	074W	25	SW1/4SE1/4	0			-105.68343	43.05661
P183360.0W	09/14/2007	Complete	SE/SE 25-36-74 (3 Wells) Mine Unit K Monitor Well Ext.	MON	036N	074W	25	SE1/4SE1/4	0			-105.676219	43.057319
P183361.0W	09/14/2007	Complete	SW/SE 25-36-74 (1 Well) Mine Unit K Monitor Well Ext.	MON	036N	074W	25	SW1/4SE1/4	0			-105.683431	43.056611

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P183362.0W	09/14/2007	Complete	NW/SE 25-36-74 (1 Well) Mine Unit K Monitor Well Ext.	MON	036N	074W	25	NW1/4SE1/4	0			-105.681111	43.060969
P28276.0W	09/23/1974	Complete	TW 1	MON	036N	074W	25	SE1/4SE1/4	0	1010	520	-105.67622	43.05732
P28277.0W	09/23/1974	Complete	TW 2	MON	036N	074W	25	SW1/4SW1/4	0	946	490	-105.69092	43.05737
P54909.0W	03/07/1980	Complete	OWS 1	MON	036N	074W	25	SW1/4SE1/4	0	575	233.23	-105.68343	43.05661
P54910.0W	03/07/1980	Complete	OWD 1	MON	036N	074W	25	SW1/4SE1/4	0	994	640.21	-105.68343	43.05661
P54911.0W	03/07/1980	Complete	OWS 2	MON	036N	074W	25	SE1/4SE1/4	0	584	115.7	-105.67622	43.05732
P54912.0W	03/07/1980	Complete	OWD 2	MON	036N	074W	25	SE1/4SE1/4	0	900	-1.00	-105.67622	43.05732
P54913.0W	03/07/1980	Complete	OWS 3	MON	036N	074W	25	SE1/4SW1/4	0	570	207.42	-105.6851	43.05842
P54914.0W	03/07/1980	Complete	OWD 3	MON	036N	074W	25	SE1/4SW1/4	0	882	615	-105.6851	43.05842
P54915.0W	03/07/1980	Complete	OWS 4	MON	036N	074W	25	SW1/4SW1/4	0	540	152.72	-105.69092	43.05737
P54916.0W	03/07/1980	Complete	OWD 4	MON	036N	074W	25	SW1/4SW1/4	0	-1	603.95	-105.69092	43.05737
P70188.0W	05/21/1985	Complete	OM 25 590	MON	036N	074W	25	NE1/4SE1/4	0	977	533	-105.67624	43.06095
P70189.0W	05/21/1985	Complete	OM 25 589	MON	036N	074W	25	SW1/4SW1/4	0	864	403	-105.69092	43.05737
P70190.0W	05/21/1985	Complete	NM 25 588	MON	036N	074W	25	SE1/4SE1/4	0	942	474.6	-105.67622	43.05732
P70191.0W	05/21/1985	Complete	PM 25 587	MON	036N	074W	25	SE1/4SE1/4	0	798	398	-105.67622	43.05732
P70192.0W	05/21/1985	Complete	MM 25 586	MON	036N	074W	25	NE1/4SE1/4	0	990	493.6	-105.67624	43.06095
P70193.0W	05/21/1985	Complete	QM 25 585	MON	036N	074W	25	NE1/4SE1/4	0	775	471	-105.67624	43.06095
P110974.0W	07/14/1998	Complete	O-301	MON	036N	074W	26	NW1/4SE1/4	0	529	294.97	-105.69921	43.0623
P110975.0W	07/14/1998	Complete	MS-307	MON	036N	074W	26	NE1/4SW1/4	0	510	315.38	-105.70572	43.06096
P110976.0W	07/14/1998	Complete	MS-308	MON	036N	074W	26	NE1/4SW1/4	0	494	208.1	-105.70572	43.06096
P110977.0W	07/14/1998	Complete	MS-312	MON	036N	074W	26	NW1/4SE1/4	0	467	270.67	-105.69921	43.0623
P110978.0W	07/14/1998	Complete	MS-313	MON	036N	074W	26	NW1/4SE1/4	0	458	262.39	-105.69921	43.0623
P135264.0W	05/25/2001	Complete	M-201	MON	036N	074W	26	SW1/4SE1/4	0	801	567	-105.70078	43.05735
P135265.0W	05/25/2001	Complete	M-202	MON	036N	074W	26	SW1/4SE1/4	0	820	285	-105.70078	43.05735
P135267.0W	05/25/2001	Complete	M-204	MON	036N	074W	26	SE1/4SE1/4	0	860	327	-105.69584	43.05737
P135268.0W	05/25/2001	Complete	M-205	MON	036N	074W	26	SE1/4SE1/4	0	861	319	-105.69584	43.05737
P135269.0W	05/25/2001	Complete	M-206	MON	036N	074W	26	SE1/4SE1/4	0	880	356	-105.69584	43.05737
P135284.0W	05/25/2001	Complete	M-221	MON	036N	074W	26	NE1/4SE1/4	0	937	392	-105.69582	43.0623
P135285.0W	05/25/2001	Complete	M-222	MON	036N	074W	26	NE1/4SE1/4	0	920	364	-105.69582	43.0623
P135286.0W	05/25/2001	Complete	M-223	MON	036N	074W	26	NE1/4SE1/4	0	882	323	-105.69582	43.0623
P135287.0W	05/25/2001	Complete	M-224	MON	036N	074W	26	NW1/4SE1/4	0	862	320	-105.69921	43.0623
P135288.0W	05/25/2001	Complete	MS-201	MON	036N	074W	26	SW1/4SE1/4	0	482	277	-105.70078	43.05735
P135289.0W	05/25/2001	Complete	MS-202	MON	036N	074W	26	SE1/4SE1/4	0	558	255	-105.69584	43.05737
P135290.0W	05/25/2001	Complete	MS-203	MON	036N	074W	26	SE1/4SE1/4	0	481	288	-105.69584	43.05737
P135291.0W	05/25/2001	Complete	MS-204	MON	036N	074W	26	NE1/4SE1/4	0	619	309	-105.69582	43.0623
P135292.0W	05/25/2001	Complete	MS-205	MON	036N	074W	26	NE1/4SE1/4	0	521	330	-105.69582	43.0623
P135301.0W	05/25/2001	Complete	MD-201	MON	036N	074W	26	SW1/4SE1/4	0	899	319	-105.70078	43.05735
P135302.0W	05/25/2001	Complete	MD-202	MON	036N	074W	26	SE1/4SE1/4	0	939	342	-105.69584	43.05737
P135303.0W	05/25/2001	Complete	MD-203	MON	036N	074W	26	SE1/4SE1/4	0	935	361	-105.69584	43.05737
P135304.0W	05/25/2001	Complete	MD-204	MON	036N	074W	26	NE1/4SE1/4	0	978	389	-105.69582	43.0623
P135305.0W	05/25/2001	Complete	MD-205	MON	036N	074W	26	NE1/4SE1/4	0	979	402	-105.69582	43.0623
P135314.0W	05/25/2001	Complete	MP-201	MON	036N	074W	26	SW1/4SE1/4	0	742	290	-105.70078	43.05735
P142001.0W	01/22/2002	Complete	M-314B	MON	036N	074W	26	SE1/4SW1/4	0	715	268	-105.7057	43.05733

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P52154.0W	05/14/1980	Complete	OWD 8	MON	036N	074W	26	SE1/4NW1/4	0	916	572	-105.70574	43.06393
P54917.0W	03/07/1980	Complete	OWS 5	MON	036N	074W	26	SE1/4SE1/4	0	510	147.02	-105.69584	43.05737
P54918.0W	03/07/1980	Complete	OWD 5	MON	036N	074W	26	SE1/4SE1/4	0	892	557.7	-105.69584	43.05737
P61829.0W	07/16/1982	Complete	OM1	MON	036N	074W	26	NW1/4SE1/4	0	812	413	-105.69921	43.0623
P61830.0W	07/16/1982	Complete	OM2	MON	036N	074W	26	NW1/4SE1/4	0	808	395	-105.69921	43.0623
P61832.0W	07/16/1982	Complete	OM4	MON	036N	074W	26	NE1/4SW1/4	0	825	416	-105.70572	43.06096
P61833.0W	07/16/1982	Complete	OM5	MON	036N	074W	26	NE1/4SW1/4	0	810	404	-105.70572	43.06096
P61834.0W	07/16/1982	Complete	OM6	MON	036N	074W	26	NE1/4SW1/4	0	805	395	-105.70572	43.06096
P61835.0W	07/16/1982	Complete	OM7	MON	036N	074W	26	NE1/4SW1/4	0	805	375	-105.70572	43.06096
P61836.0W	07/16/1982	Complete	OM8	MON	036N	074W	26	NE1/4SW1/4	0	815	397	-105.70572	43.06096
P61837.0W	07/16/1982	Complete	OM9	MON	036N	074W	26	NE1/4SW1/4	0	899	420	-105.70572	43.06096
P61838.0W	07/16/1982	Complete	OM10	MON	036N	074W	26	NE1/4SW1/4	0	320	207	-105.70572	43.06096
P61839.0W	07/16/1982	Complete	OM11	MON	036N	074W	26	NE1/4SW1/4	0	222	81	-105.70572	43.06096
P70195.0W	05/21/1985	Complete	OM 26 837	MON	036N	074W	26	SE1/4SE1/4	0	857	411	-105.69584	43.05737
P70196.0W	05/21/1985	Complete	OM 26 836	MON	036N	074W	26	SW1/4SE1/4	0	776	336	-105.70078	43.05735
P70197.0W	05/21/1985	Complete	OM 76 835	MON	036N	074W	26	NW1/4SE1/4	0	752	351	-105.69921	43.0623
P70198.0W	05/21/1985	Complete	OM 26 834	MON	036N	074W	26	NW1/4SW1/4	0	783	377	-105.71064	43.06095
P80503.0W	06/16/1989	Complete	OM 3	MON	036N	074W	26	NE1/4SW1/4	0	815	397	-105.70572	43.06096
P117949.0W	07/30/1999	Complete	MD-411	MON	036N	074W	33	SE1/4SE1/4	0	910	228.81	-105.73506	43.04273
P117950.0W	07/30/1999	Complete	MS-411	MON	036N	074W	33	SE1/4SE1/4	0	685	227.18	-105.73506	43.04273
P118645.0W	09/03/1999	Complete	M-418A	MON	036N	074W	33	NE1/4SE1/4	0	850	258.73	-105.73508	43.04638
P109119.0W	03/06/1998	Complete	M-424	MON	036N	074W	34	NE1/4SW1/4	0	903	285.76	-105.72528	43.04639
P109123.0W	03/06/1998	Complete	M-428	MON	036N	074W	34	NW1/4SE1/4	0	1020	401.01	-105.72029	43.0464
P118643.0W	09/03/1999	Complete	MS 405A	MON	036N	074W	34	SW1/4NE1/4	0	905	426.44	-105.7203	43.05004
P118644.0W	09/03/1999	Complete	M 429A	MON	036N	074W	34	NW1/4SE1/4	0	935	341.6	-105.72029	43.0464
P118646.0W	09/03/1999	Complete	MD-410	MON	036N	074W	34	NE1/4SW1/4	0	1020	316.99	-105.72528	43.04639
P70187.0W	05/21/1985	Complete	MM 34 528	MON	036N	074W	34	NW1/4SW1/4	0	800	274.7	-105.73017	43.04639
P116204.0W	06/01/1999	Complete	M-435	MON	036N	074W	35	NW1/4SW1/4	0	853	247	-105.71056	43.04641
P116205.0W	06/01/1999	Complete	M-436	MON	036N	074W	35	SW1/4SW1/4	0	823	207	-105.71055	43.04276
P117937.0W	07/30/1999	Complete	MD-412	MON	036N	074W	35	NW1/4SW1/4	0	941	233	-105.71056	43.04641
P117938.0W	07/30/1999	Complete	MD-413	MON	036N	074W	35	NW1/4SW1/4	0	896	225	-105.71056	43.04641
P117939.0W	07/30/1999	Complete	MD-414	MON	036N	074W	35	SE1/4SW1/4	0	904	181	-105.70563	43.04276
P117940.0W	07/30/1999	Complete	MD-415	MON	036N	074W	35	SE1/4SW1/4	0	915	151	-105.70563	43.04276
P117943.0W	07/30/1999	Complete	MS-412	MON	036N	074W	35	NW1/4SW1/4	0	721	212	-105.71056	43.04641
P117944.0W	07/30/1999	Complete	MS-413	MON	036N	074W	35	NW1/4SW1/4	0	704	200	-105.71056	43.04641
P117945.0W	07/30/1999	Complete	MS-414	MON	036N	074W	35	SE1/4SW1/4	0	704	180	-105.70563	43.04276
P117946.0W	07/30/1999	Complete	MS-415	MON	036N	074W	35	SE1/4SW1/4	0	716	209	-105.70563	43.04276
P118996.0W	09/16/1999	Complete	M-455A	MON	036N	074W	35	NE1/4SW1/4	0	797	194	-105.70564	43.04641
P135266.0W	05/25/2001	Complete	M-203	MON	036N	074W	35	NW1/4NE1/4	0	822	299	-105.70076	43.05371
P70200.0W	05/21/1985	Complete	MM 35 744	MON	036N	074W	35	NE1/4SW1/4	0	777	224	-105.70564	43.04641
P70201.0W	05/21/1985	Complete	LM 35 743	MON	036N	074W	35	SE1/4SW1/4	0	807	238.5	-105.70563	43.04276
P70202.0W	05/21/1985	Complete	MM 35 742	MON	036N	074W	35	SE1/4SW1/4	0	719	242.3	-105.70563	43.04276
P70203.0W	05/21/1985	Complete	KM 35 741	MON	036N	074W	35	SE1/4SW1/4	0	880	247	-105.70563	43.04276
P70204.0W	05/21/1985	Complete	OM 35 740	MON	036N	074W	35	SE1/4SW1/4	0	680	253	-105.70563	43.04276

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P135270.0W	05/25/2001	Complete	M-207	MON	036N	074W	36	NW1/4NW1/4	0	858	319	-105.69091	43.05369
P135271.0W	05/25/2001	Complete	M-208	MON	036N	074W	36	NW1/4NW1/4	0	856	338	-105.69091	43.05369
P135272.0W	05/25/2001	Complete	M-209	MON	036N	074W	36	NW1/4NW1/4	0	855	323	-105.69091	43.05369
P135273.0W	05/25/2001	Complete	M-210	MON	036N	074W	36	NE1/4NW1/4	0	838	313	-105.68603	43.05369
P135274.0W	05/25/2001	Complete	M-211	MON	036N	074W	36	NE1/4NW1/4	0	842	303	-105.68603	43.05369
P141280.0W	12/06/2001	Complete	WW-36-3	MON	036N	074W	36	NE1/4NW1/4	0	396	233	-105.68603	43.05369
P54919.0W	03/07/1980	Complete	OWD 6	MON	036N	074W	36	NE1/4NW1/4	0	865	613.08	-105.68603	43.05369
P54921.0W	07/21/1980	Complete	OWD 10	MON	036N	074W	36	NE1/4NW1/4	0	802	781	-105.68603	43.05369
P85921.0W	08/26/1991	Complete	B-1	MON	036N	074W	36	NE1/4NW1/4	0	497	310.23	-105.68603	43.05369
P85922.0W	08/26/1991	Complete	B-2	MON	036N	074W	36	SE1/4NW1/4	0	514	339.83	-105.68601	43.05006
P85923.0W	08/26/1991	Complete	B-3	MON	036N	074W	36	SE1/4NW1/4	0	484	328.13	-105.68601	43.05006
P85924.0W	08/26/1991	Complete	B-4	MON	036N	074W	36	SE1/4NW1/4	0	502	330.83	-105.68601	43.05006
P85925.0W	08/26/1991	Complete	B-5	MON	036N	074W	36	SE1/4NW1/4	0	534	359.12	-105.68601	43.05006
P85926.0W	08/26/1991	Complete	B-6	MON	036N	074W	36	SE1/4NW1/4	0	502	338.02	-105.68601	43.05006
P85927.0W	08/26/1991	Complete	B-7	MON	036N	074W	36	SE1/4NW1/4	0	510	319.02	-105.68601	43.05006
P85928.0W	08/26/1991	Complete	B-8	MON	036N	074W	36	SW1/4NE1/4	0	550	364.32	-105.68111	43.05006
P85929.0W	08/26/1991	Complete	B-9	MON	036N	074W	36	SW1/4NE1/4	0	470	293.61	-105.68111	43.05006
P85930.0W	08/26/1991	Complete	B-10	MON	036N	074W	36	SW1/4NE1/4	0	500	294.32	-105.68111	43.05006
P85931.0W	08/26/1991	Complete	B-11	MON	036N	074W	36	SE1/4NE1/4	0	460	266.89	-105.67619	43.05006
P85932.0W	08/26/1991	Complete	B-12	MON	036N	074W	36	SE1/4NE1/4	0	473	274.22	-105.67619	43.05006
P85933.0W	08/26/1991	Complete	B-13	MON	036N	074W	36	SE1/4NE1/4	0	467	275.81	-105.67619	43.05006
P85934.0W	08/26/1991	Complete	B-14	MON	036N	074W	36	SE1/4NE1/4	0	497	310.06	-105.67619	43.05006
P85935.0W	08/26/1991	Complete	M-1	MON	036N	074W	36	NE1/4NW1/4	0	490	295.76	-105.68603	43.05369
P85936.0W	08/26/1991	Complete	M-2	MON	036N	074W	36	NW1/4NE1/4	0	550	352.21	-105.68343	43.05551
P85937.0W	08/26/1991	Complete	M-3	MON	036N	074W	36	NW1/4NE1/4	0	550	356.93	-105.68343	43.05551
P85938.0W	08/26/1991	Complete	M-4	MON	036N	074W	36	NW1/4NE1/4	0	550	340.4	-105.68343	43.05551
P85939.0W	08/26/1991	Complete	M-5	MON	036N	074W	36	NE1/4NE1/4	0	520	306.03	-105.67621	43.05369
P85940.0W	08/26/1991	Complete	M-6	MON	036N	074W	36	NE1/4NE1/4	0	492	303	-105.67621	43.05369
P85941.0W	08/26/1991	Complete	M-7	MON	036N	074W	36	NE1/4NE1/4	0	470	280.84	-105.67621	43.05369
P85946.0W	08/26/1991	Complete	M-12	MON	036N	074W	36	NE1/4SE1/4	0	467	291.09	-105.67618	43.04645
P85947.0W	08/26/1991	Complete	M-13	MON	036N	074W	36	NE1/4SE1/4	0	460	273.16	-105.67618	43.04645
P85948.0W	08/26/1991	Complete	M-14	MON	036N	074W	36	NE1/4SE1/4	0	460	251.69	-105.67618	43.04645
P85949.0W	08/26/1991	Complete	M-15	MON	036N	074W	36	SW1/4NE1/4	0	430	239.23	-105.68111	43.05006
P85950.0W	08/26/1991	Complete	M-16	MON	036N	074W	36	NW1/4SE1/4	0	434	248.48	-105.6811	43.04645
P85951.0W	08/26/1991	Complete	M-17	MON	036N	074W	36	NW1/4SE1/4	0	460	282.81	-105.6811	43.04645
P85952.0W	08/26/1991	Complete	M-18	MON	036N	074W	36	NE1/4SW1/4	0	476	277.11	-105.686	43.04644
P85953.0W	08/26/1991	Complete	M-19	MON	036N	074W	36	NE1/4SW1/4	0	460	277.11	-105.686	43.04644
P85954.0W	08/26/1991	Complete	M-20	MON	036N	074W	36	NE1/4SW1/4	0	512	342.87	-105.686	43.04644
P85955.0W	08/26/1991	Complete	M-21	MON	036N	074W	36	SW1/4NW1/4	0	489	330.95	-105.69089	43.05006
P85956.0W	08/26/1991	Complete	M-22	MON	036N	074W	36	SW1/4NW1/4	0	493	328.74	-105.69089	43.05006
P85957.0W	08/26/1991	Complete	M-23	MON	036N	074W	36	SE1/4NW1/4	0	455	285.22	-105.68601	43.05006
P85958.0W	08/26/1991	Complete	M-24	MON	036N	074W	36	NE1/4NW1/4	0	477	288.67	-105.68603	43.05369
P85959.0W	08/26/1991	Complete	M-25	MON	036N	074W	36	NE1/4NW1/4	0	488	295.02	-105.68603	43.05369
P85960.0W	08/26/1991	Complete	MS-1	MON	036N	074W	36	NE1/4NW1/4	0	412	257.81	-105.68603	43.05369

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P85961.0W	08/26/1991	Complete	MS-2	MON	036N	074W	36	SE1/4NW1/4	0	452	301.23	-105.68601	43.05006
P85962.0W	08/26/1991	Complete	MS-3	MON	036N	074W	36	SE1/4NW1/4	0	415	275.68	-105.68601	43.05006
P85963.0W	08/26/1991	Complete	MS-4	MON	036N	074W	36	SE1/4NW1/4	0	440	288.28	-105.68601	43.05006
P85964.0W	08/26/1991	Complete	MS-5	MON	036N	074W	36	SW1/4NE1/4	0	466	307.56	-105.68111	43.05006
P85965.0W	08/26/1991	Complete	MS-6	MON	036N	074W	36	SW1/4NE1/4	0	385	307.56	-105.68111	43.05006
P85966.0W	08/26/1991	Complete	MS-7	MON	036N	074W	36	SE1/4NE1/4	0	367	213.47	-105.67619	43.05006
P85967.0W	08/26/1991	Complete	MS-8	MON	036N	074W	36	SE1/4NE1/4	0	376	221.46	-105.67619	43.05006
P85968.0W	08/26/1991	Complete	MS-9	MON	036N	074W	36	SE1/4NE1/4	0	374	221.05	-105.67619	43.05006
P85969.0W	08/26/1991	Complete	MS-10	MON	036N	074W	36	SE1/4NE1/4	0	418	262.47	-105.67619	43.05006
P85970.0W	08/26/1991	Complete	MD-1	MON	036N	074W	36	NE1/4NW1/4	0	596	325.86	-105.68603	43.05369
P85971.0W	08/26/1991	Complete	MD-2	MON	036N	074W	36	SE1/4NW1/4	0	641	368.16	-105.68601	43.05006
P85972.0W	08/26/1991	Complete	MD-3	MON	036N	074W	36	SE1/4NW1/4	0	595	343.86	-105.68601	43.05006
P85973.0W	08/26/1991	Complete	MD-4	MON	036N	074W	36	SE1/4NW1/4	0	607	355.12	-105.68601	43.05006
P85974.0W	08/26/1991	Complete	MD-5	MON	036N	074W	36	SW1/4NE1/4	0	647	375.05	-105.68111	43.05006
P85975.0W	08/26/1991	Complete	MD-6	MON	036N	074W	36	SW1/4NE1/4	0	577	303.69	-105.68111	43.05006
P85976.0W	08/26/1991	Complete	MD-7	MON	036N	074W	36	SE1/4NE1/4	0	600	280.79	-105.67619	43.05006
P85977.0W	08/26/1991	Complete	MD-8	MON	036N	074W	36	SE1/4NE1/4	0	567	293.07	-105.67619	43.05006
P85978.0W	08/26/1991	Complete	MD-9	MON	036N	074W	36	SE1/4NE1/4	0	582	295.39	-105.67619	43.05006
P85979.0W	08/26/1991	Complete	MD-10	MON	036N	074W	36	SE1/4NE1/4	0	612	328.51	-105.67619	43.05006
P55809.0W	03/02/1981	Complete	DJ81-IB-9	MON	036N	075W	24	SE1/4NW1/4	0	531	424.1	-105.80378	43.07865
P55814.0W	03/02/1981	Complete	DJ81-SC-9	MON	036N	075W	24	SE1/4NW1/4	0	593	423.02	-105.80378	43.07865
P55815.0W	03/02/1981	Complete	DJ81-BA-9	MON	036N	075W	24	SE1/4NW1/4	0	410	362.34	-105.80378	43.07865
P56087.0W	03/09/1981	Complete	DJ-AW-7	MON	036N	075W	24	SW1/4SE1/4	0	60.93	22.6	-105.79891	43.07137
P56048.0W	03/13/1981	Complete	DJ81-SP1	MON	036N	075W	34	SE1/4NW1/4	0	138.1	120.6	-105.84278	43.04978
P69354.0W	02/08/1985	Complete	DJ84 SW 31	MON	036N	075W	34	SE1/4NW1/4	0	138	118.7	-105.84278	43.04978
P69355.0W	02/08/1985		DJ84 SC 40	MON	036N	075W	34	SE1/4NW1/4	0	130	117.71	-105.84278	43.04978
P69356.0W	02/08/1985	Complete	DJ84 SC 39	MON	036N	075W	34	SE1/4NW1/4	0	148	130.35	-105.84278	43.04978
P69357.0W	02/08/1985	Complete	DJ84 SC 38	MON	036N	075W	34	SE1/4NW1/4	0	152	134.23	-105.84278	43.04978
P69358.0W	02/08/1985	Complete	DJ84 SC 36	MON	036N	075W	34	SE1/4NW1/4	0	140	123.22	-105.84278	43.04978
P69359.0W	02/08/1985	Complete	DJ84 SC 35	MON	036N	075W	34	SE1/4NW1/4	0	163	132.69	-105.84278	43.04978
P69360.0W	02/08/1985	Complete	DJ84 SC 34	MON	036N	075W	34	SE1/4NW1/4	0	150	122.83	-105.84278	43.04978
P69361.0W	02/08/1985	Complete	DJ84 SC 33	MON	036N	075W	34	SE1/4NW1/4	0	150	126.03	-105.84278	43.04978
P69362.0W	02/08/1985		DJ84 SC 32	MON	036N	075W	34	SE1/4NW1/4	0	155	132.84	-105.84278	43.04978
P69363.0W	02/08/1985	Complete	DJ84 SC 31	MON	036N	075W	34	SE1/4NW1/4	0	190	145.57	-105.84278	43.04978
P69364.0W	02/08/1985	Complete	DJ 84 SC 30	MON	036N	075W	34	SE1/4NW1/4	0	174	147.12	-105.84278	43.04978
P69365.0W	02/08/1985	Complete	DJ84 BA 37	MON	036N	075W	34	NW1/4NE1/4	0	160	124.03	-105.83787	43.05339
P69366.0W	02/08/1985	Complete	DJ84 SC 37	MON	036N	075W	34	SW1/4NE1/4	0	345	280.27	-105.83786	43.04977
P55578.0W	01/02/1981	Complete	DJ81-BA-12	MON	036N	075W	35	NW1/4NW1/4	0	239	255.27	-105.82806	43.05337
P55580.0W	01/02/1981	Complete	DJ81-SC-12	MON	036N	075W	35	NW1/4NW1/4	0	442	361.01	-105.82806	43.05337
P137351.0W	08/13/2001	Complete	36-UB (W)-11	MON	036N	075W	36	NW1/4NE1/4	0	429	412	-105.79885	43.05336
P55574.0W	01/02/1981	Complete	DJ81-SC-11	MON	036N	075W	36	SW1/4NE1/4	0	357	237.91	-105.79876	43.04974
P55575.0W	01/02/1981	Complete	DJ81-IB-11	MON	036N	075W	36	SW1/4NE1/4	0	319	232.29	-105.79876	43.04974
P55576.0W	01/02/1981	Complete	DJ81-BA-11	MON	036N	075W	36	SW1/4NE1/4	0	180	163.91	-105.79876	43.04974
P52694.0W	03/07/1980	Complete	10 OW 1	MON	037N	073W	10	NW1/4NW1/4	0	100	38.45	-105.61814	43.19907

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P52693.0W	03/07/1980	Complete	15 OW 1	MON	037N	073W	15	NE1/4NW1/4	0	180	136.24	-105.61304	43.18461
P52692.0W	03/07/1980	Complete	16 OW 1	MON	037N	073W	16	SE1/4NW1/4	0	180	94.71	-105.63279	43.18099
P52690.0W	03/07/1980	Complete	21 0W 1	MON	037N	073W	21	SE1/4SW1/4	0	60	16.75	-105.63276	43.15935
P52691.0W	03/07/1980	Complete	22-0W-1	MON	037N	073W	22	NW1/4NW1/4	0	80	37.36	-105.61794	43.17023
P52689.0W	03/07/1980	Complete	28 OWS 1	MON	037N	073W	28	NE1/4NE1/4	0	160	73.06	-105.62285	43.15575
P77026.0W	06/13/1988	Complete	UM 198	MON	037N	073W	30	SE1/4NW1/4	0	510	220	-105.6724	43.15191
P77027.0W	06/13/1988	Complete	UM 199	MON	037N	073W	30	SE1/4NW1/4	0	492	220	-105.6724	43.15191
P77028.0W	06/13/1988	Complete	UM 200	MON	037N	073W	30	SE1/4NW1/4	0	505	220	-105.6724	43.15191
P77032.0W	06/13/1988	Complete	U 201	MON	037N	073W	30	SE1/4NW1/4	0	510	220	-105.6724	43.15191
P52686.0W	03/07/1980	Complete	33 OWD 1	MON	037N	073W	33	NW1/4NW1/4	0	360	147.62	-105.63754	43.14308
P52687.0W	03/07/1980	Complete	33 OWS 1	MON	037N	073W	33	NW1/4NW1/4	0	190	133.27	-105.63754	43.14308
P52688.0W	03/07/1980	Complete	33-OWD-2	MON	037N	073W	33	NE1/4SW1/4	0	300	218.3	-105.63269	43.13406
P184482.0W	01/04/2008	Incomplete	SW/SW 25-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	25	SW1/4SW1/4	0			-105.696919	43.144303
P158839.0W	05/13/2004	Complete	26-476 (Reynolds Ranch)	MON	037N	074W	26	SE1/4NW1/4	0	500	237.95	-105.71187	43.1516
P158840.0W	05/13/2004	Complete	26-477 (Reynolds Ranch)	MON	037N	074W	26	SE1/4SE1/4	0	860	289.79	-105.70195	43.14452
P184483.0W	01/04/2008	Incomplete	SE/SE 26-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	26	SE1/4SE1/4	0			-105.701956	43.144214
P184484.0W	01/04/2008	Incomplete	SW/SE 26-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	26	SW1/4SE1/4	0			-105.706803	43.144292
P184485.0W	01/04/2008	Incomplete	NE/SE (2Wells)26-37-74 Mine Unit 27 Monitor Wells	MON	037N	074W	26	NE1/4SE1/4	0			-105.702325	43.147781
P186180.0W	03/26/2008	Incomplete	SE/SE 26-37-74 (6Wells) Mine Unit Monitor	MON	037N	074W	26	SE1/4SE1/4	0			-105.701914	43.144067
P191408.0W	09/01/2009	Incomplete	SE/SE 26-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	26	SE1/4SE1/4	0			-105.702039	43.143878
P59819.0W	02/01/1982	Complete	DJ81-AW-24	MON	037N	074W	30	SE1/4SE1/4	0	50.3	14.85	-105.78123	43.14425
P59818.0W	02/01/1982	Complete	DJ81-AW-25	MON	037N	074W	31	NE1/4NE1/4	0	91.21	12.74	-105.78122	43.14064
P158841.0W	05/13/2004	Complete	35-882 (Reynolds Ranch)	MON	037N	074W	35	SE1/4NW1/4	0	640	337	-105.71184	43.13728
P158842.0W	05/13/2004	Complete	35-883 (Reynolds Ranch)	MON	037N	074W	35	SE1/4NE1/4	0	850	301.44	-105.7019	43.13736
P184478.0W	01/04/2008	Incomplete	SW/NE 35-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	35	SW1/4NE1/4	0			-105.706844	43.137342
P184481.0W	01/04/2008	Incomplete	NW/NE 35-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	35	NW1/4NE1/4	0			-105.707189	43.140569
P185399.0W	03/03/2008	Incomplete	SE/NE 35-37-74 (1 Well) Mine Unit 27 Monitor Well	MON	037N	074W	35	SE1/4NE1/4	0			-105.701869	43.136872
P185401.0W	03/03/2008	Incomplete	NE/SE 35-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	35	NE1/4SE1/4	0			-105.701936	43.133256
P186181.0W	03/26/2008	Incomplete	NE/NE 35-37-74 (6 Wells) Mine Unit 27 Monitor	MON	037N	074W	35	NE1/4NE1/4	0			-105.701878	43.140428
P186183.0W	03/26/2008	Incomplete	SE/NE 35-37-74 (3 Wells) Mine Unit 27 Monitor	MON	037N	074W	35	SE1/4NE1/4	0			-105.701839	43.136722
P191405.0W	09/01/2009	Incomplete	NE/NE 35-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	35	NE1/4NE1/4	0			-105.701686	43.140786
P191409.0W	09/01/2009	Incomplete	SE/NE 35-37-74 (2 Wells)	MON	037N	074W	35	SE1/4NE1/4	0			-105.701944	43.136914

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
			Mine Unit 27 Monitor Wells										
P145534.0W	06/26/2002	Complete	SMC1057	MON	037N	074W	36	NE1/4NW1/4	0	604	294	-105.69203	43.141
P145535.0W	06/26/2002	Complete	SMC1060	MON	037N	074W	36	SW1/4NW1/4	0	785	250	-105.69696	43.13739
P184475.0W	01/04/2008	Complete	SE/SW 36-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	SE1/4SW1/4	0			-105.6923	43.130594
P184476.0W	01/04/2008	Incomplete	NE/SW 36-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	NE1/4SW1/4	0			-105.692058	43.133681
P184477.0W	01/04/2008	Incomplete	SE/NW 36-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	SE1/4NW1/4	0			-105.691908	43.137094
P184479.0W	01/04/2008	Incomplete	NE/NW 36-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	NE1/4NW1/4	0			-105.691906	43.140961
P184480.0W	01/04/2008	Incomplete	NW/NW 36-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	NW1/4NW1/4	0			-105.697311	43.140911
P185400.0W	03/03/2008	Incomplete	SW/NW 36-37-74 (1 Well) Mine Unit 27 Monitor Well	MON	037N	074W	36	SW1/4NW1/4	0			-105.697008	43.136903
P185402.0W	03/03/2008	Incomplete	NW/SW 36-37-74 (3 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	NW1/4SW1/4	0			-105.6969	43.133344
P185403.0W	03/03/2008	Incomplete	SW/SW 36-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	SW1/4SW1/4	0			-105.696892	43.129689
P186182.0W	03/26/2008	Incomplete	NW/NW 36-37-74 (6 Wells) Mine Unit 27 Monitor	MON	037N	074W	36	NW1/4NW1/4	0			-105.696969	43.140444
P186184.0W	03/26/2008	Incomplete	SW/NW 36-37-74 (6 Wells) Mine Unit 27 Monitor	MON	037N	074W	36	SW1/4NW1/4	0			-105.696872	43.136881
P186185.0W	03/26/2008	Incomplete	NW/SW 36-37-74 (6 Wells) Mine Unit 27 Monitor	MON	037N	074W	36	NW1/4SW1/4	0			-105.696972	43.133322
P186186.0W	03/26/2008	Incomplete	SE/SW 36-37-74 (3 Wells) Mine Unit 27 Monitor	MON	037N	074W	36	SE1/4SW1/4	0			-105.691922	43.12965
P191406.0W	09/01/2009	Incomplete	SW/SW 36-37-74 (1 Well) Mine Unit 27 Monitor Well	MON	037N	074W	36	SW1/4SW1/4	0			-105.6964	43.129269
P191407.0W	09/01/2009	Incomplete	SE/SW 36-37-74 (2 Wells) Mine Unit 27 Monitor Wells	MON	037N	074W	36	SE1/4SW1/4	0			-105.691964	43.130217
P191410.0W	09/01/2009	Incomplete	NW/SW 36-37-74 (1 Well) Mine Unit 27 Monitor Well	MON	037N	074W	36	NW1/4SW1/4	0			-105.697078	43.133197
P78282.0W	10/13/1988	Complete	SMC1071S	MON	037N	074W	36	SE1/4NE1/4	0	30	-7.00	-105.68213	43.13746
P78283.0W	10/13/1988	Complete	SMC1072S	MON	037N	074W	36	SE1/4NE1/4	0	32.4	-7.00	-105.68213	43.13746
P4565.0W	02/13/1970	Complete	Smith #37	STK	034N	074W	04	SE1/4NW1/4	10	143	100	-105.74393	42.94834
P59700.0W	03/19/1981	Complete	Keenan #36	STK	034N	074W	05	NW1/4NW1/4	25	80	45	-105.76865	42.95197
P14027.0W	05/30/1972	Complete	Budhall #1	STK	034N	074W	06	NE1/4NW1/4	3	380	120	-105.78334	42.9519
P22378.0P	09/07/1963	Complete	Monument #68	STK	035N	072W	03	NW1/4SE1/4	4	189	85	-105.48219	43.03331
P22360.0P	07/31/1950	Complete	Jenkins #20	STK	035N	072W	08	NE1/4SE1/4	3	204	-1.00	-105.51812	43.01826
P22071.0P	07/27/1966	Complete	Strock #2	STK	035N	072W	18	SW1/4NE1/4	10	255	80	-105.54249	43.0071
P4994.0P	11/10/1966	Complete	Smith #16	STK	035N	073W	02	NE1/4SW1/4	10	200	60	-105.58748	43.03228
P70099.0W	05/09/1985	Complete	Smith 16	STK	035N	073W	02	NE1/4SW1/4	4	140	60	-105.58748	43.03228
P151581.0W	06/03/2003	Complete	Taylor # 3	STK	035N	073W	03	NW1/4NW1/4	7	280	87	-105.61208	43.03943
P3699.0P	03/31/1969	Complete	Smith #17	STK	035N	073W	15	NW1/4SW1/4	7.5	176	75	-105.61142	43.00318

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P11831.0W	12/29/1971	Complete	Smith #47	STK	035N	073W	16	NW1/4SE1/4	10	62	20	-105.62126	43.00314
P25039.0W	11/26/1973	Complete	Smith #48	STK	035N	073W	29	NE1/4NW1/4	5	65	35	-105.64613	42.98121
P67930.0W	07/02/1984	Complete	Smith #53	STK	035N	073W	29	SE1/4NE1/4	25	720	390	-105.63619	42.97758
P164093.0W	12/01/2004	Complete	Hay Meadow #1	STK	035N	074W	01	SE1/4NE1/4	6	85	21	-105.67606	43.03562
P5008.0P	11/13/1966	Complete	Smith #35	STK	035N	074W	01	SE1/4NE1/4	10	145	40	-105.67606	43.03562
P154804.0W	11/04/2003	Complete	Hay Meadow #1	STK	035N	074W	02	SW1/4NW1/4	8	85	21	-105.71042	43.03722
P5004.0P	09/25/1937	Complete	Smith #31	STK	035N	074W	03	NW1/4NE1/4	8	80	36	-105.72029	43.03913
P24679.0W	08/24/1973	Complete	KM #2 Smith #2	STK	035N	074W	07	NE1/4NE1/4	80	550	350	-105.77422	43.0245
P5000.0P	03/20/1938	Complete	Smith #27	STK	035N	074W	08	SW1/4SE1/4	8	80	36	-105.7593	43.0138
P165194.0W	01/12/2005	Complete	Potts #1	STK	035N	074W	10	SW1/4NE1/4	4	180	58	-105.71995	43.02213
P165195.0W	01/12/2005		Potts #2	STK	035N	074W	10	SW1/4SW1/4	3	245	128.5	-105.7298	43.01372
P5001.0P	08/04/1952	Complete	Smith #28	STK	035N	074W	10	NW1/4SW1/4	10	151	35	-105.72979	43.01736
P129283.0W	09/25/2000	Complete	Solar Panel 2	STK	035N	074W	11	NW1/4NE1/4	10	80	12	-105.70035	43.02469
P70101.0W	05/09/1985	Complete	Smith 62	STK	035N	074W	11	NE1/4NE1/4	10	400	125	-105.69546	43.02478
P62481.0W	10/26/1982	Complete	Smith #51	STK	035N	074W	12	NW1/4SE1/4	12	140	24	-105.68071	43.01749
P5002.0P	10/08/1954	Complete	Smith #29	STK	035N	074W	13	SE1/4SW1/4	10	105	55	-105.68559	42.99937
P184775.0W	01/16/2008	Incomplete	East Lola	STK	035N	074W	16	SE1/4NE1/4	7			-105.734653	43.006006
P21501.0P	09/27/1951	Complete	Bowman #1	STK	035N	074W	20	NE1/4NW1/4	10	180	175	-105.76401	42.99716
P3703.0P	04/13/1969	Complete	Smith #26	STK	035N	074W	21	SE1/4SW1/4	7.5	56	38	-105.74416	42.98473
P4564.0W	02/13/1970	Complete	Smith #36	STK	035N	074W	21	SW1/4NE1/4	10	237	140	-105.73937	42.99204
P4998.0P	04/16/1952	Complete	Smith #24	STK	035N	074W	22	NE1/4SW1/4	12	207	140	-105.72463	42.98834
P4999.0P	10/01/1950	Complete	Smith #25	STK	035N	074W	23	NW1/4SW1/4	12	75	35	-105.71013	42.98824
P3702.0P	03/27/1969	Complete	Smith #22	STK	035N	074W	27	SW1/4SW1/4	7.5	126	75	-105.72948	42.97018
P163067.0W	10/04/2004	Complete	West Downs #1	STK	035N	074W	28	SW1/4SW1/4	8	260	135	-105.74904	42.97017
P8611.0W	04/09/1971	Complete	Smith #42	STK	035N	074W	28	SW1/4SW1/4	7	103	60	-105.74904	42.97017
P14028.0W	05/30/1972	Complete	Four Corners #1	STK	035N	074W	30	SE1/4SE1/4	25			-105.77376	42.97003
P38331.0W	06/13/1977	Complete	Coates #1	STK	035N	074W	30	NW1/4SE1/4	13	365	55	-105.77868	42.97362
P163066.0W	10/04/2004		Campbell #1	STK	035N	074W	32	NE1/4NE1/4	6	300	172	-105.75395	42.96652
P8174.0P	03/31/1941	Complete	Henry Keenan #4	STK	035N	074W	33	SW1/4SW1/4	5	141	85	-105.74903	42.95566
P4996.0P	09/23/1950	Complete	Smith #21	STK	035N	074W	35	SE1/4NW1/4	10	135	85	-105.70491	42.96294
P3701.0P	03/18/1952	Complete	Smith #20	STK	035N	074W	36	NW1/4SE1/4	7.5	170	60	-105.68022	42.95938
P46868.0W	03/13/1979	Complete	Adams #1	STK	035N	075W	04	NE1/4NE1/4	5	460	300	-105.85257	43.0389
P131347.0W	12/06/2000	Complete	Herma # 3	STK	035N	075W	15	SE1/4SW1/4	0	180	75	-105.84208	42.99902
P75727.0W	10/08/1987	Complete	Tillard 55 #3	STK	035N	075W	21	SW1/4SE1/4	20	60	20	-105.85678	42.98457
P76256.0W	02/01/1988	Complete	Tillard 55 #3	STK	035N	075W	23	SW1/4NW1/4	4	350	150	-105.82728	42.99217
P32314.0W	03/08/1976	Complete	Seidel #1	STK	035N	075W	28	NW1/4NE1/4	5	180	45	-105.85673	42.98094
P12215.0P	07/31/1920	Complete	Spencer #15	STK	035N	075W	34	SW1/4NE1/4	6	125	100	-105.8369	42.9629
P12216.0P	08/31/1927	Complete	Spencer Pasture #16	STK	035N	075W	34	SW1/4SW1/4	10	130	90	-105.84667	42.95552
P22374.0P	08/16/1960	Complete	Irwin Dike	STK	036N	072W	01	NE1/4NE1/4	3	75	-1.00	-105.4394	43.12852
P14372.0P	03/21/1938	Complete	Numrich #4	STK	036N	072W	05	SE1/4NE1/4	5	190	-1.00	-105.51742	43.12388
P14370.0P	03/21/1938	Complete	Numrich #2	STK	036N	072W	07	NW1/4SE1/4	5	180	-1.00	-105.54137	43.10564
P61086.0W	06/07/1982	Complete	Numrich #3	STK	036N	072W	07	SE1/4SW1/4	5	300	70	-105.54671	43.10187
P14371.0P	03/21/1938	Complete	Numrich #3	STK	036N	072W	08	NE1/4SW1/4	5	185	-1.00	-105.52618	43.10585
P16285.0P	12/31/1936	Complete	Fowler Spring #3	STK	036N	072W	10	NE1/4NE1/4	4	8	0	-105.47828	43.11334

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P22372.0P	08/28/1959	Complete	Antone #40	STK	036N	072W	12	SW1/4SE1/4	5	150	-1.00	-105.44397	43.10276
P99382.0W	06/13/1995	Complete	Antone #3	STK	036N	072W	12	NE1/4NE1/4	5	402	210	-105.43918	43.11374
P74925.0W	06/05/1987	Complete	North Box #130	STK	036N	072W	14	NE1/4SW1/4	25	1170	82	-105.46834	43.09161
P31652.0W	10/10/1975	Complete	Enl. Highland #24	STK	036N	072W	17	SW1/4SW1/4	0	740	340	-105.52994	43.08574
P41462.0W	12/22/1977		Enl. Highland #13	STK	036N	072W	17	SE1/4SE1/4	25	691	330	-105.5168	43.08764
P69141.0W	11/26/1984	Complete	Fowler #5	STK	036N	072W	17	NW1/4SE1/4	20	742	420	-105.52165	43.09127
P14369.0P	03/21/1938	Complete	Numrich #1	STK	036N	072W	18	NE1/4NW1/4	5	185	-1.00	-105.54676	43.09822
P16288.0P	09/21/1954	Complete	Lee Fowler #4	STK	036N	072W	20	SE1/4NE1/4	8	-1	-1.00	-105.51707	43.08034
P31649.0W	10/10/1975	Complete	Enl. Highland #21	STK	036N	072W	20	NW1/4SW1/4	0	601	-1.00	-105.53178	43.07665
P31650.0W	10/10/1975	Complete	Enl. Highland #22	STK	036N	072W	20	SW1/4NW1/4	0	681	260	-105.53176	43.08028
P31651.0W	10/10/1975	Complete	Enl. Highland #23	STK	036N	072W	20	NE1/4NW1/4	0	741	260	-105.52682	43.08394
P16287.0P	09/21/1930	Complete	Fowler Spring #2	STK	036N	072W	22	NW1/4NW1/4	1	3	0	-105.49269	43.08416
P99385.0W	06/13/1995	Complete	North Box #2	STK	036N	072W	22	SW1/4SW1/4	4	405	206	-105.49283	43.0732
P9155.0P	10/21/1968	Complete	Reynolds No. 3	STK	036N	073W	03	NW1/4SW1/4	10	140	21	-105.613183	43.12035
P163616.0W	11/04/2004	Complete	Mangy Coyote S5-1	STK	036N	073W	05	SE1/4SW1/4	1	6	6	-105.64931	43.11688
P99386.0W	06/13/1995	Complete	Willow Creek #1	STK	036N	073W	11	SE1/4SE1/4	8	695	348	-105.57757	43.10157
P14373.0P	12/31/1938	Complete	Numrich #5	STK	036N	073W	13	SE1/4SW1/4	5	185	-1.00	-105.56776	43.08697
P144333.0W	05/06/2002	Complete	Terrell No. 1	STK	036N	073W	15	SW1/4SW1/4	7	146	85	-105.61226	43.08679
P153488.0W	08/13/2003	Complete	Duck Creek #17-2	STK	036N	073W	17	SW1/4NW1/4	5.8	183	106	-105.65199	43.09379
P163615.0W	11/04/2004	Complete	Duck Creek #17-1	STK	036N	073W	17	SW1/4NW1/4	2	7	7	-105.65199	43.09379
P77858.0W	08/23/1988	Complete	Duck Creek #17	STK	036N	073W	17	SW1/4NE1/4	2	255	102	-105.64204	43.09381
P27911.0W	09/05/1974	Complete	Adams #1	STK	036N	073W	19	NW1/4NE1/4	25	300	100	-105.66188	43.08286
P9161.0P	08/31/1938	Complete	Reynolds #20	STK	036N	073W	20	NW1/4NW1/4	4	47	26	-105.64959	43.08294
P160753.0W	07/12/2004	Complete	Reynolds #21-3	STK	036N	073W	21	NE1/4NW1/4	5	317	148	-105.62707	43.08305
P6986.0P	10/28/1960	Complete	Vollman #4	STK	036N	073W	21	SW1/4SE1/4	4	200	127	-105.62214	43.07218
P14377.0P	03/21/1938	Complete	Numrich #9	STK	036N	073W	22	NW1/4NE1/4	5	180	-1.00	-105.60486	43.08316
P14374.0P	03/21/1938	Complete	Numrich #6	STK	036N	073W	23	SW1/4NE1/4	5	170	-1.00	-105.58261	43.07959
P14375.0P	03/21/1938	Complete	Numrich #7	STK	036N	073W	23	SE1/4NW1/4	5	180	-1.00	-105.58761	43.07956
P14376.0P	03/21/1938	Complete	Numrich #8	STK	036N	073W	23	NW1/4NW1/4	5	180	-1.00	-105.59254	43.08309
P6987.0P	09/20/1952	Complete	Vollman #5	STK	036N	073W	26	SW1/4NE1/4	5	198	94	-105.582739	43.065061
P6983.0P	08/21/1955	Complete	Vollman #1	STK	036N	073W	27	SW1/4SE1/4	5	180	142.3	-105.60249	43.05768
P75937.0W	08/12/1987	Complete	Stock Water Overfiling SWEPI #1 Water	STK	036N	073W	27	NW1/4SE1/4	25	710	450	-105.60251	43.06133
P6984.0P	11/30/1932	Complete	Vollman #2	STK	036N	073W	30	SE1/4NE1/4	5	100	85	-105.65661	43.06473
P6989.0P	12/31/1932	Complete	Vollman #7	STK	036N	073W	30	NE1/4NE1/4	5	32	-1.00	-105.65661	43.06838
P6985.0P	09/25/1940	Complete	Vollman #3	STK	036N	073W	35	NE1/4SE1/4	5	20	15	-105.57774	43.04691
P9154.0P	07/31/1940	Complete	Reynolds #1	STK	036N	074W	01	SW1/4NE1/4	3	11	4	-105.68173	43.12276
P47627.0W	04/09/1979	Complete	Granpa #1	STK	036N	074W	03	NW1/4NE1/4	25			-105.72102	43.12646
P139440.0W	10/02/2001	Complete	Judson Spring	STK	036N	074W	06	SE1/4NW1/4	12	10	1	-105.78466	43.12241
P30728.0W	08/15/1975		Hornbuckle #17	STK	036N	074W	08	SW1/4SW1/4	8	92	54	-105.76985	43.10079
P126089.0W	06/12/2000	Complete	Upper Brown Spring #1	STK	036N	074W	09	NW1/4SW1/4	25	160	29	-105.75011	43.10458
P163613.0W	11/04/2004	Complete	Silver Spoon Spring S12-1	STK	036N	074W	12	NW1/4NW1/4	1	4	1	-105.69136	43.1119
P9158.0P	11/30/1951	Complete	Reynolds #13	STK	036N	074W	13	NW1/4NW1/4	3	195	150	-105.69125	43.09743
P30999.0W	09/19/1975	Complete	Smith #51	STK	036N	074W	17	NE1/4NE1/4	5	100	78	-105.75502	43.09729

Table 3.4-4 Groundwater Rights within 5 km of Smith Ranch

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P19184.0P	09/30/1956	Complete	Lenzen #1	STK	036N	074W	19	SW1/4SE1/4	7.5	225	102	-105.77957	43.07147
P55599.0W	02/18/1981	Complete	Lenzen Ranch Co. #3	STK	036N	074W	19	NE1/4NW1/4	6	260	60	-105.78459	43.08236
P8625.0W	03/26/1971	Complete	Smith #41	STK	036N	074W	20	NE1/4SE1/4	7	85	60	-105.75492	43.0754
P5006.0P	11/12/1966	Complete	Smith #33	STK	036N	074W	23	SE1/4SW1/4	8	175	60	-105.70581	43.07186
P5007.0P	09/16/1938	Complete	Smith #34	STK	036N	074W	24	NE1/4SW1/4	8	145	110	-105.68609	43.07553
P111655.0W	09/03/1998	Complete	WW109 A	STK	036N	074W	26	NW1/4NE1/4	4	200	90	-105.70082	43.07004
P5005.0P	10/22/1954	Complete	Smith #32	STK	036N	074W	27	NE1/4SW1/4	8	287	115	-105.72535	43.06093
P70100.0W	05/09/1985	Complete	Smith 61	STK	036N	075W	23	SE1/4SE1/4	4	200	125	-105.81354	43.07144
P30898.0W	09/02/1975	Complete	Smith #50	STK	036N	075W	26	SE1/4SE1/4	4	65	50	-105.81348	43.05697
P14636.0P	09/21/1952	Complete	#1 G Manning Southwest Windmill	STK	037N	072W	30	SE1/4SE1/4	5	180	126	-105.54235	43.14532
P196886.0W	10/10/2011	Incomplete	Manning No. 11	STK	037N	072W	30	SW1/4SE1/4	25			-105.547133	43.144739
P70352.0W	06/06/1985	Complete	Manning #9	STK	037N	072W	31	SE1/4SW1/4	3	120	20	-105.55124	43.13082
P19964.0P	05/11/1955	Complete	Hornbuckle Well #3	STK	037N	073W	08	SW1/4NE1/4	8	530	-1.00	-105.6479	43.19545
P19968.0P	12/31/1942	Complete	Hornbuckle Well #7	STK	037N	073W	17	SE1/4SW1/4	8	210	100	-105.65268	43.17366
P19965.0P	12/31/1940	Complete	Hornbuckle Well #4	STK	037N	073W	19	SW1/4SE1/4	8	130	90	-105.66751	43.15914
P195606.0W	05/02/2011	Incomplete	Smuck No. 2	STK	037N	073W	20	NW1/4NW1/4	25			-105.657622	43.169578
P69509.0W	02/06/1985	Complete	DCR # 27 (37-73)	STK	037N	073W	27	NW1/4NE1/4	25	1000	140	-105.607939	43.155781
P75999.0W	11/13/1987	Complete	Duck Creek #28	STK	037N	073W	28	SW1/4SW1/4	3	240	110	-105.63768	43.14488
P94859.0W	03/28/1994		Duck Creek #30	STK	037N	073W	30	SW1/4SW1/4	20			-105.67725	43.1447
P28416.0W	11/15/1974	Complete	Duck Creek #1	STK	037N	073W	31	SW1/4SW1/4	13.5	440	40	-105.67717	43.13027
P96420.0W	08/02/1994	Complete	Duck Creek #31	STK	037N	073W	31	NW1/4NW1/4	2	170	125	-105.67723	43.14109
P9167.0P	09/30/1951	Complete	Reynolds #32	STK	037N	073W	32	SW1/4SW1/4	3	175	130	-105.65773	43.12857
P94860.0W	03/28/1994	Complete	Duck Creek #32	STK	037N	073W	32	NE1/4SW1/4	5	320	240	-105.65249	43.13398
P129266.0W	09/22/2000	Complete	Wes Dipping Vat	STK	037N	074W	08	SE1/4NW1/4	25	115	36	-105.77153	43.1945
P24118.0P	12/31/1968	Complete	ART #55 1	STK	037N	074W	08	NE1/4SE1/4	3	200	-1.00	-105.76158	43.19092
P3319.0W	09/30/1969	Complete	Section 8 37 74 Well #1	STK	037N	074W	08	NW1/4SE1/4	2	215	-4.00	-105.76654	43.19091
P36169.0P	02/09/1977	Complete	Henry #5	STK	037N	074W	08	SE1/4SW1/4	25	300	-6.00	-105.77146	43.1873
P158737.0W	04/30/2004		Phillips Creek Windmill	STK	037N	074W	09	SW1/4SW1/4	25			-105.75661	43.18736
P158736.0W	04/30/2004	Complete	South Past. Solar	STK	037N	074W	10	NE1/4SW1/4	2.5	150	39	-105.73176	43.19127
P19962.0P	12/31/1918	Complete	Hornbuckle Well #1	STK	037N	074W	12	NW1/4NW1/4	25	-1	-1.00	-105.69722	43.19859
P19967.0P	12/31/1941	Complete	Hornbuckle Well #6	STK	037N	074W	12	SE1/4SW1/4	10	510	25	-105.69224	43.18786
P7720.0P	11/24/1957	Complete	Henry #4	STK	037N	074W	14	NE1/4NE1/4	4	255	-6.00	-105.7021	43.18411
P140786.0W	11/13/2001	Complete	Shearing Pens # 2	STK	037N	074W	20	SW1/4SW1/4	6	118	1	-105.77631	43.15867
P113277.0W	12/07/1998		Hooper House Spring	STK	037N	074W	21	NE1/4NW1/4	0	0	0	-105.7516	43.1695
P158732.0W	04/30/2004		Waters Fee 31-21	STK	037N	074W	21	NW1/4NE1/4	25			-105.74666	43.16961
P158735.0W	04/30/2004	Complete	Hooper House Well	STK	037N	074W	21	NW1/4SW1/4	5	245	54	-105.75652	43.1622
P193958.0W	09/15/2010	Incomplete	Upper Pasture #2	STK	037N	074W	22	SE1/4SW1/4	5			-105.731811	43.158706
P7719.0P	10/30/1945	Complete	Henry #3	STK	037N	074W	23	NW1/4NE1/4	5	235	23	-105.70696	43.16966
P19971.0P	11/03/1959	Complete	Hornbuckle Well #10	STK	037N	074W	24	NW1/4NW1/4	8	140	90	-105.69708	43.16976
P126088.0W	06/12/2000	Complete	Lower Brown Springs #1	STK	037N	074W	32	SE1/4NW1/4	25	200	86	-105.77128	43.13705
P17314.0P	08/13/1955	Complete	Mason #2	STK	037N	074W	34	SW1/4SE1/4	4	255	120	-105.72668	43.13004
P9169.0P	06/30/1942	Complete	Reynolds #36 (deepened)	STK	037N	074W	36	SE1/4NE1/4	3	180	58	-105.68213	43.13746

Table 3.4-5 Peak Discharges for Design Recurrence Interval Storm Events

Basin	Area (ac)	Channel Length (ft)	Channel Slope (ft/ft)	Basin Relief (ft)	Tc (min)	Qpk 50-yr, 6-hr (cfs)	Qpk 100-yr, 6-hr (cfs)
A1	106.0	2544	0.033	90	11.5	71.00	82.82
A2	62.5	1779	0.037	70	9.6	37.15	51.28
A3	3.1	619	0.045	35	7.5	1.95	2.68
A4	56.8	2093	0.055	115	8.7	34.60	47.50
A	**228.4**	-	-	-	-	**106.48***	**155.50***
B1	143.0	6359	0.088	560	10.0	128.87	166.76
B2	38.9	1996	0.055	110	7.9	24.19	33.18
B3	26.1	1202	0.025	30	9.9	15.35	21.21
B4	22.8	370	0.069	45	26.6	13.80	18.45
B	**230.8**	-	-	-	-	**131.76***	**183.2***
C1	173.4	4964	0.098	485	9.4	120.91	162.58
C2	52.4	2169	0.058	125	8.5	34.70	47.09
C3	51.5	3718	0.027	100	14.7	26.84	37.54
C	**277.3**	-	-	-	-	**120.27***	**177.75***
D1	60.5	2509	0.052	150	8.7	36.87	50.71
D	**60.5**	-	-	-	-	**29.77***	**43.18***
E1	102	2931	0.044	130	10.7	68.87	92.94
E2	103.3	4166	0.031	130	14.6	54.29	75.89
E	**205.3**	-	-	-	-	**80.11***	**119.57***
F1	69.2	2476	0.044	110	10.6	50.42	67.26
F2	97.5	3364	0.051	170	11.2	85.58	111.02
F3	45.7	2017	0.072	55	12.1	32.16	43.02
F4	81.3	4633	0.019	90	20.3	39.69	52.26
F	**332.4**	-	-	-	-	**154.10***	**222.42***
G1	555.3	10157	0.039	395	18.7	338.66	458.60
G2	23.6	812	0.037	30	7.9	14.68	20.13
G3	49.5	2942	0.025	75	13.9	26.48	36.94
G	**628.4**	-	-	-	-	**238.39***	**342.49***
H1	323.2	5531	0.033	185	16.4	161.21	226.35
H2	24.5	2004	0.030	60	10.7	14.11	19.55
H3	29.6	2315	0.013	30	16.2	14.84	20.83
H	**377.3**	-	-	-	-	**126.64***	**189.48***
I1	127.1	2556	0.037	95	11.0	72.49	100.49
I2	235.6	3290	0.015	50	18.2	112.91	158.97
I3	83.0	1642	0.010	25	16.2	41.61	58.40
I4	31.1	1208	0.058	70	7.0	19.75	26.99
I5	12.6	625	0.016	10	10.5	7.30	10.10
I	**489.4**	-	-	-	-	**157.74***	**231.56***

Basin totals are not the arithmetic sum of the sub-basins. Totals are modeled flows at the outlet and account for friction losses, routing lag times, etc.

Table 3.4-6 North Butte Surface Water Quality Data

| | | Major Ions (mg/l) | | | | | | | | | | | | Non-Metals (mg/L) | | | | Trace Metals (mg/l) DISSOLVED | | | | | | | | | | | |

Table 3.4-7 North Butte Remote Satellite Sediment Quality Data

Sample Name	Sample Date	Radiometrics Totals (pCi/g-dry)			
		Uranium (NatU)	Lead-210 (210Pb)	Radium-226 (226Ra)	Thorium-230 (230Th)
NBI-1	8/12/2010	6.83	1.3	2.4	1.6
NBI-2	8/12/2010	3.46	1.3	1.8	1.3
NBI-3	8/12/2010	2.11	2.7	1.9	0.9
NBI-4	8/12/2010	3.44	1.3	2.0	1.6
NBI-5	8/12/2010	2.24	1.9	1.5	0.6
NBI-6	8/12/2010	1.98	2.2	1.8	0.9
NBI-7	8/12/2010	1.97	0.9	1.6	1.0
NBI-8	8/12/2010	2.17	3.3	2.1	1.3
NBI-9	8/12/2010	2.73	1.8	2.2	1.3
NBI-10	8/12/2010	3.08	6.4	10.4	8.6
NBI-11	8/12/2010	1.64	2.7	1.9	1.2
NBI-12	8/12/2010	1.96	2.9	1.7	1.2
NBI-13	8/13/2010	1.70	2.7	1.6	1.3
NBI-14	8/13/2010	1.84	1.9	1.6	1.1
NBI-14	9/20/2011	2.56	2.1	1.7	1.3
NBI-15	8/13/2010	3.84	1.6	1.1	0.9
NBI-16	8/13/2010	2.81	1.8	1.4	1.0
NBI-17	8/13/2010	2.47	1.9	1.3	0.8
NBI-18	8/13/2010	2.26	1.4	1.0	0.6
NBSWS-1	8/12/2010	2.87	1.7	1.7	0.7
NBSWS-1	6/1/2011	2.36	1.1	1.4	0.9
NBSWS-2	8/12/2010	2.88	2.3	1.8	1.5
NBSWS-2	6/1/2011	2.09	0.6	1.1	0.6
NBSWS-3	8/12/2010	1.53	1.1	1.0	0.8
NBSWS-3	6/1/2011	1.26	0.6	0.9	0.5
NBSU-1	8/13/2010	1.45	1.9	0.9	0.5
NBSU-1	6/2/2011	1.38	0.6	1.0	0.6
NBSU-2	8/13/2010	1.90	1.3	1.2	1.0
NBSU-2	9/20/2011	1.43	1.1	1.0	0.7
NBSU-3	8/13/2010	2.13	1.7	1.2	0.7
NBSU-3	6/2/2011	1.78	1.2	0.9	0.3
NBSU-4	8/13/2010	2.25	1.3	1.1	0.7
NBSU-4	5/31/2011	1.11	0.6	0.8	0.3
NBSU-5	8/13/2010	2.16	1.7	1.1	0.8
NBSU-5	6/2/2011	1.92	0.6	1.2	0.7
NBSU-6	8/14/2010	2.67	1.6	1.1	1.0
NBSU-6	5/31/2011	1.93	0.5	0.9	1.0
NBSD-1	8/13/2010	1.84	0.8	0.8	0.5
NBSD-1*	6/2/2011	1.58	0.5	0.9	0.5
NBSD-2	8/13/2010	1.57	1.9	1.2	0.8
NBSD-2	6/2/2011	1.62	0.7	1.0	0.7
NBSD-3	8/13/2010	1.91	2.2	1.2	0.9
NBSD-3	6/2/2011	1.27	1.4	0.9	0.5
NBXS-1	6/2/2011	1.29	1.1	0.7	0.3
NBXS-2	8/14/2010	1.15	1.2	0.8	0.8
NBXS-2	6/2/2011	1.17	0.8	0.7	0.3
NBXS-3	6/2/2011	1.24	1.0	0.8	0.4
NBXS-4	6/2/2011	3.97	1.3	1.9	1.5
NBXS-5	6/2/2011	2.19	0.8	1.2	0.9
NBXS-6	6/2/2011	1.98	1.4	1.2	0.9
NBXS-7	8/14/2010	2.93	1.3	1.2	1.3

Table 3.4-7 North Butte Remote Satellite Sediment Quality Data

Sample Name	Sample Date	Radiometrics Totals (pCi/g-dry)			
		Uranium (NatU)	Lead-210 (210Pb)	Radium-226 (226Ra)	Thorium-230 (230Th)
NBXS-7	6/2/2011	2.47	0.8	1.0	0.9
NBXS-8	8/14/2010	1.54	0.5	0.7	0.5
NBXS-8	6/1/2011	1.96	0.8	1.0	0.7
NBXS-9	6/1/2011	2.01	0.6	1.0	0.6
NBXS-10	6/1/2011	2.09	0.4	1.0	1.0
NBXS-10	9/21/2011	2.06	0.6	0.8	0.7
NBXS-11	6/1/2011	3.37	1.3	1.3	1.2
NBXS-12	6/1/2011	2.82	0.6	1.1	1.0
NBXS-13*	6/2/2011	1.58	0.5	0.9	0.5
n =		60	60	60	60
Average		2.2	1.4	1.4	1.0
Standard Deviation		0.9	0.9	1.3	1.1
Minimum		1.1	0.4	0.7	0.3
Maximum		6.8	6.4	10.4	8.6

* Sampled at same location.

Table 3.4-8 Wells within 2 km of the North Butte Remote Satellite

Permit Number	Permit Priority	Uses	Permit Facility Name	Permit Applicant	T	R	SEC	QQ	Static Water Level	Well Depth	Flow Amount	Comments
P13299P	8/15/68	STO	1-8-44-75 Jordan	Naomi A. Jordan	44	75	8	SENW	0	-1	5	Not found in field.
P58966W	11/13/81	STO	Sheepstick Well #1	Brown Land Co.	44		17	NENE			25	No longer in use.
P89253W	8/11/92	STO	CCI #2	T-Chair Land Co.	44	75	17	NWSE	214.6	440	8	Contains submersible pump, discharges to stock tank.
P11893P	12/11/62	STO	North Pfister #2	Brown Land Co.	44	75	18	SWNE	80	250	1.5	No longer in use.
P40889W	11/25/77	STO,MIS	Brown #6 [?=Beck well?]	American Nuclear Corp.** Brown Land Co.	44	75	19	SESW	400	780	40	Used for lawn watering and stock use.
P114048W	2/18/99	STO	Dobie Hill Well #1	T-Chair Land Co.	44	75	29	SWSE	295	640	25	Contains submersible pump, discharges to stock tank.
P36013W	1/17/77	STO	Brown #5	Franklin Brown	44	75	30	SWNE	90	540	45	Contains submersible pump, discharges to stock pond.
P48652W	6/21/79	STO	Cities Service Brown (WS)	Brown Land Co.	44	75	31	NWNW	280	702	25	Contains submersible pump, discharges to stock tank.
P15069P	12/31/60	STO	Brown #2 (Flowing Spring)	Brown Land Co.	44	76	14	SESE	spring	no well	8	No longer flowing.
P63604W	4/6/83	STO	Red Barrel #1	T-Chair Livestock Co.	44	76	25	SWNW	125	525	10	Contains submersible pump, discharges to stock tank and pond.
P24095P	12/21/53	STO	Calving Shed #18	John Christensen	44	76	27	NWNW	40	140	4	No longer in use.
P15068P [? = P23206W]	6/8/73	STO	Brown #1 (Flowing Spring)	Brown Land Co.	44	76	11	NESE	spring	no well	5	Flows to stock tank.

Table 3.4-9 North Butte Groundwater Quality Results

		Major Ions (mg/l)										Non-Metals (mg/L)			Trace Metals (mg/l) DISSOLVED																	Trace Metals (mg/l) TOTALS			Radiometrics (pCi/L) DISSOLVED								Radiometrics (pCi/L) SUSPENDED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	pH (std units)	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Mercury	Lead 210	Uranium (mg/L)	Radium 226	Radium 228	Thorium 230	Polonium 210	Gross Alpha	Gross Beta	Lead 210	Uranium (mg/L)	Radium 226	Thorium 230	Polonium 210
Well Name	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	F	SiO2	TDS	Cond.	pH	Al	As	Ba	Be	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	Hg	210Pb	NatU	226Ra	228Ra	230Th	210Po	-	-	210Pb	NatU	226Ra	230Th	210Po
Red Barrel #1	6/1/2011	73	16	174	5	ND	181	487	5	ND	0.2	9.7	857	1230	8.0	ND	ND	ND	ND	0.30	ND	ND	ND	0.07	ND	0.17	ND	ND	ND	ND	ND	0.01	0.49	0.16	ND	0.60	0.019	0.25	0.50	0.030	1.80	40.1	12.9	0.20	ND	-0.08	0.02	0.09
Red Barrel #1	9/20/2011	78	17	183	5	ND	169	488	5	ND	0.2	9.9	851	1210	8.0	ND	ND	ND	-	ND	ND	ND	ND	0.07	ND	0.16	ND	ND	ND	ND	ND	0.02	0.60	0.15	-	0.60	0.019	1.20	0.60	-0.008	0.20	39.5	13.8	-0.30	ND	-0.005	0.10	0.10
Red Barrel #1 (Dup)	9/21/2011	75	17	181	5	ND	168	481	5	ND	0.2	9.1	849	1220	7.9	ND	ND	ND	-	0.10	ND	ND	ND	0.05	ND	0.15	ND	ND	ND	ND	ND	0.02	0.51	0.16	-	0.04	0.019	0.34	0.30	0.060	5.10	30.5	11.2	-0.20	ND	0.03	0.30	0.20
CCI #2	6/1/2011	76	18	114	6	ND	255	302	3	0.5	ND	11.7	654	960	8.0	ND	ND	ND	ND	0.20	ND	ND	ND	ND	ND	0.01	ND	ND	ND	0.09	ND	ND	ND	0.02	ND	-0.09	0.130	0.40	1.30	0.040	-0.02	299.0	56.4	1.30	0.0006	0.36	0.03	1.10
CCI #2	9/20/2011	79	19	112	6	ND	238	302	3	0.6	ND	12.3	639	948	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	0.09	ND	0.48	0.69	0.03	-	0.50	0.123	0.80	1.00	0.030	0.50	294.0	41.3	0.70	0.0023	0.34	0.30	1.40
Dobie Hill #1	6/1/2011	11	2	105	2	ND	179	106	12	ND	0.6	9.5	342	546	8.5	ND	ND	ND	ND	0.20	ND	ND	ND	0.08	ND	0.02	ND	ND	ND	ND	ND	ND	0.23	0.02	ND	0.80	ND	0.08	-0.01	0.050	-0.02	1.1	2.3	-0.08	ND	-0.08	0.04	0.02
Dobie Hill #1	9/21/2011	12	2	106	2	ND	158	115	12	ND	0.7	10.0	353	556	8.5	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	0.04	0.01	-	0.20	ND	0.21	0.30	0.005	-0.04	-2.0	2.8	-0.30	ND	0.09	0.20	0.09
Brown #5	6/1/2011	110	22	166	7	ND	154	598	6	0.1	0.1	11.7	990	1370	8.0	ND	ND	ND	ND	0.20	ND	ND	ND	ND	ND	0.02	ND	ND	ND	0.001	ND	0.05	0.12	0.02	ND	0.50	0.012	0.11	0.80	-0.004	-0.01	40.3	9.4	0.20	ND	-0.05	0.04	0.20
Brown #5	9/20/2011	115	23	167	7	ND	137	607	6	0.2	0.1	11.1	1000	1360	7.9	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	0.002	ND	0.03	0.06	0.02	-	0.50	0.012	0.26	0.90	0.050	0.30	24.8	12.0	-0.80	ND	0.07	0.60	0.04
City Service Brown	6/2/2011	47	12	186	5	ND	98	479	5	ND	0.2	9.8	785	1150	8.2	ND	ND	ND	ND	0.20	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	0.03	0.26	0.02	ND	0.50	0.007	0.32	0.60	0.010	0.20	28.2	7.6	0.40	ND	-0.06	0.04	0.20
City Service Brown	9/21/2011	48	13	189	5	ND	95	477	6	ND	0.2	9.5	786	1140	8.3	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	0.13	0.26	0.02	-	0.40	0.079	0.50	1.10	0.070	0.80	19.7	8.1	-0.40	ND	-0.08	0.20	0.10
Beck Well	6/2/2011	84	16	191	7	ND	105	584	4	ND	ND	10.1	955	1330	8.0	ND	ND	ND	ND	0.10	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND	0.03	0.09	0.05	ND	1.00	0.014	2.20	0.50	0.100	0.10	43.8	14.7	1.90	ND	0.07	0.04	1.30
Beck Well	9/21/2011	87	17	189	7	ND	97	587	4	ND	ND	10.0	946	1320	8.0	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND	0.02	ND	0.04	-	0.30	0.130	1.30	0.10	0.040	0.50	25.5	9.4	0.04	ND	-0.05	0.20	0.20
Brown #1	6/2/2011	12	5	13	2	ND	83	11	2	1.4	0.2	30.4	116	161	7.6	ND	0.003	ND	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70	ND	-0.08	0.50	0.070	-0.04	-1.0	0.8	0.40	ND	0.03	0.03	0.02
Brown #1 (Dup)	6/2/2011	12	5	13	2	ND	83	11	2	1.4	0.2	30.4	116	161	7.6	ND	0.003	ND	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.70	ND	-0.08	0.50	0.070	-0.04	-1.0	0.8	0.40	ND	0.03	0.03	0.02
Brown #1	9/21/2011	12	6	14	2	ND	79	11	2	1.6	0.4	29.9	121	165	7.6	ND	0.003	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	-	0.40	0.003	-0.07	0.09	-0.020	0.10	-1.0	0.09	-0.30	ND	-0.05	0.30	0.09
n=		16	16	16	16	0	16	16	16	7	12	16	16	16	16	0	3	0	0	9	0	0	0	4	0	13	0	0	0	5	0	10	11	13	0	16	12	16	16	16	16	16	16	16	2	16	16	16
Average		58	13	131	5	-	142	353	5	0.83	0.28	14.07	648	927	8.00	-	0.003	-	-	0.17	-	-	-	0.07	-	0.05	-	-	-	0.04	-	0.08	0.30	0.06	-	0.48	0.047	0.48	0.57	0.037	0.59	55.09	12.72	0.20	0.0015	0.04	0.15	0.32
Standard Deviation		37	7	67	2	-	55	230	3	0.62	0.19	8.07	328	454	0.27	-	0	-	-	0.07	-	-	-	0.01	-	0.06	-	-	-	0.05	-	0.14	0.23	0.06	-	0.28	0.052	0.62	0.38	0.034	1.29	95.70	15.17	0.68	0.0012	0.14	0.16	0.48
Minimum		11	2	13	2	ND	79	11	2	0.10	0.10	9.10	116	161	7.60	ND	0.003	ND	ND	0.10	ND	ND	ND	0.05	ND	0.01	ND	ND	ND	0.00	ND	0.01	0.04	0.01	ND	-0.09	0.003	-0.08	-0.01	-0.020	-0.04	-2.00	0.09	-0.80	0.0006	-0.08	0.02	0.02
Maximum		115	23	191	7	ND	255	607	12	1.60	0.70	30.40	1000	1370	8.52	ND	0.003	ND	ND	0.30	ND	ND	ND	0.08	ND	0.17	ND	ND	ND	0.09	ND	0.48	0.69	0.16	ND	1.00	0.130	2.20	1.30	0.100	5.10	299.00	56.40	1.90	0.0023	0.36	0.60	1.40

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P140506.0W	11/02/2001		T-C Ranch 2S-5	CBM	043N	076W	02	SW1/4NW1/4	25			-105.96581	43.73204
P140507.0W	11/02/2001	Complete	T-C Ranch 2S-9	CBM	043N	076W	02	NE1/4SE1/4	1	1610	1505	-105.951131	43.728439
P140508.0W	11/02/2001	Complete	T-C Ranch 2S-13	CBM	043N	076W	02	SW1/4SW1/4	1	1600	1475	-105.966308	43.72425
P140509.0W	11/02/2001	Complete	T-C Ranch 2S-15	CBM	043N	076W	02	SW1/4SE1/4	1	1700	1350	-105.95564	43.72436
P144906.0W	05/14/2002	Complete	Pumpking Buttes Ranch 34-33-4475	CBM	044N	075W	33	SW1/4SE1/4	2	1705	610	-105.87378	43.73868
P144907.0W	05/14/2002	Complete	Pumpking Buttes Ranch 23-27-4475	CBM	044N	075W	27	NE1/4SW1/4	8	1530	615	-105.85854	43.75748
P158575.0W	05/04/2004		Pumpking Buttes Ranch 21-4-4375	CBM	043N	075W	04	NE1/4NW1/4	60			-105.87894	43.73501
P159067.0W	05/14/2004	Complete	Hartzog State 43-16-4475BG	CBM	044N	075W	16	NE1/4SE1/4	10	1435	1321	-105.86807	43.78716
P159068.0W	05/14/2004	Complete	Hartzog State 41-16-4475BG	CBM	044N	075W	16	NE1/4NE1/4	5	1593	1450		
P159069.0W	05/14/2004	Complete	Hartzog State 34-16-4475BG	CBM	044N	075W	16	SW1/4SE1/4	12	1412	1312		
P159070.0W	05/14/2004	Complete	Hartzog State 32-16-4475BG	CBM	044N	075W	16	SW1/4NE1/4	13	1635	1506		
P159071.0W	05/14/2004	Complete	Hartzog State 21-16-4475BG	CBM	044N	075W	16	NE1/4NW1/4	13	1748	1605		
P159072.0W	05/14/2004	Complete	Hartzog State 12-16-4475BG	CBM	044N	075W	16	SW1/4NW1/4	15	1618	1499		
P159076.0W	05/14/2004	Complete	Hartzog 23-8-4475BG	CBM	044N	075W	08	NE1/4SW1/4	20	1572	1430		
P159077.0W	05/14/2004	Complete	Hartzog 21-8-4475BG	CBM	044N	075W	08	NE1/4NW1/4	16	1541	1403		
P159115.0W	05/17/2004	Complete	T-Chair 12-10-4376	CBM	043N	076W	10	SW1/4NW1/4	60			-105.98595	43.717239
P159286.0W	02/17/2004	Complete	Pumpkin Buttes Ranch 21-34-4475	CBM	044N	075W	34	NE1/4NW1/4	9	1575	1464		
P159290.0W	02/17/2004		State 14-16-4475	CBM	044N	075W	16	SW1/4SW1/4	35			-105.88437	43.78357
P159355.0W	02/17/2004	Complete	Gilbertz 23-34-4475	CBM	044N	075W	34	NE1/4SW1/4	17	1556	1428.45	-105.85854	43.74223
P159410.0W	02/19/2004	Incomplete	Pumpkin ButtesFed 43-33-4475	CBM	044N	075W	33	NE1/4SE1/4	65			-105.86868	43.74243
P162022.0W	08/09/2004	Complete	Jordan 21-27-4475	CBM	044N	075W	27	NE1/4NW1/4	12	1507	1376	-105.858519	43.764433
P162032.0W	08/16/2004		Pumpkin Buttes14-27-4475	CBM	044N	075W	27	SW1/4SW1/4	85			-105.86371	43.75385
P162427.0W	09/15/2004	Incomplete	State 14-16-4475	CBM	044N	075W	16	SW1/4SW1/4	85			-105.88437	43.78357
P163412.0W	10/20/2004	Complete	T Chair 14-7-4475BG	CBM	044N	075W	07	SW1/4SW1/4	15	1803	550.98		
P165262.0W	01/25/2005		Hartzog Federal 14-3-4475BG	CBM	044N	075W	03	SW1/4SW1/4	30			-105.860978	43.812
P165263.0W	01/25/2005	Complete	Hartzog 21-3-4475BG	CBM	044N	075W	03	NE1/4NW1/4	30			-105.856119	43.821128
P165264.0W	01/25/2005	Complete	Hartzog 23-3-4475BG	CBM	044N	075W	03	NE1/4SW1/4	30			-105.855328	43.816119
P165267.0W	01/25/2005	Complete	Hartzog Federal 12-10-4475BG	CBM	044N	075W	10	SW1/4NW1/4	30			-105.8609	43.805231
P165268.0W	01/25/2005	Complete	Hartzog 21-10-4475BG	CBM	044N	075W	10	NE1/4NW1/4	30			-105.856033	43.808928
P165277.0W	01/25/2005		Hartzog 23-34-4575BG	CBM	045N	075W	34	NE1/4SW1/4	30			-105.861558	43.827678
P165279.0W	01/25/2005	Complete	Hartzog 34-34-4575BG	CBM	045N	075W	34	SW1/4SE1/4	30			-105.856639	43.823939
P165739.0W	02/08/2005	Complete	Hartzog Federal 21-4-4475BG	CBM	044N	075W	04	NE1/4NW1/4	30			-105.87831	43.82129
P165740.0W	02/08/2005	Complete	Hartzog Federal 14-4-4475BG	CBM	044N	075W	04	SW1/4SW1/4	30			-105.88395	43.81228
P165741.0W	02/08/2005	Complete	Hartzog Federal 23-4-4475BG	CBM	044N	075W	04	NE1/4SW1/4	30			-105.87849	43.81543
P165742.0W	02/08/2005	Complete	Hartzog Federal 12-4-4475BG	CBM	044N	075W	04	SW1/4NW1/4	30			-105.88356	43.81856
P165792.0W	02/18/2005	Complete	Hartzog Federal 41-21-4475BG	CBM	044N	075W	21	NE1/4NE1/4	10.62	1561	762		
P165793.0W	02/18/2005		Hartzog Federal 23-22-4475BG	CBM	044N	075W	22	NE1/4SW1/4	25			-105.85789	43.77237
P165992.0W	02/28/2005	Complete	Hartzog Federal 12-3-4475BG	CBM	044N	075W	03	SW1/4NW1/4	30			-105.860589	43.819039
P166856.0W	04/01/2005	Complete	Jordan 14-22-4475	CBM	044N	075W	22	SW1/4SW1/4	12	1490	1376	-105.863192	43.768883
P166872.0W	04/12/2005		Savageton Fed 21-17-4475BG	CBM	044N	075W	17	NE1/4NW1/4	85			-105.89962	43.79453
P166874.0W	04/12/2005		Savageton Fed 21-4-4475BG	CBM	044N	075W	04	NE1/4NW1/4	85			-105.87831	43.82129
P166875.0W	04/12/2005		Savageton Fed 23-4-4475BG	CBM	044N	075W	04	NE1/4SW1/4	85			-105.87849	43.81543
P166876.0W	04/12/2005		Savageton Fed 32-17-4475BG	CBM	044N	075W	17	SW1/4NE1/4	85			-105.89463	43.79088
P166877.0W	04/12/2005		Savageton Fed 32-33-4575BG	CBM	045N	075W	33	SW1/4NE1/4	85			-105.87644	43.83154

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P166878.0W	04/12/2005		Savageton Fed 34-33-4575BG	CBM	045N	075W	33	SW1/4SE1/4	85			-105.87644	43.82428
P166880.0W	04/12/2005		Savageton Fed 41-17-4475BG	CBM	044N	075W	17	NE1/4NE1/4	85			-105.88961	43.79453
P166924.0W	04/12/2005		Savageton Fed 12-21-4475BG	CBM	044N	075W	21	SW1/4NW1/4	85			-105.88435	43.77628
P166925.0W	04/12/2005		Savageton Fed 21-21-4475BG	CBM	044N	075W	21	NE1/4NW1/4	85			-105.87898	43.7799
P166928.0W	04/12/2005		Savageton Fed 32-18-4475BG	CBM	044N	075W	18	SW1/4NE1/4	85			-105.91488	43.79068
P166929.0W	04/12/2005		Savageton Fed 41-18-4475BG	CBM	044N	075W	18	NE1/4NE1/4	85			-105.90968	43.79445
P166930.0W	04/12/2005		Savageton Fed 43-17-4475BG	CBM	044N	075W	17	NE1/4SE1/4	85			-105.8896	43.78723
P167066.0W	04/12/2005		Savageton Fed 12-22-4475BG	CBM	044N	075W	22	SW1/4NW1/4	85			-105.862439	43.775808
P167067.0W	04/12/2005	Complete	Savageton Fed 21-22-4475BG	CBM	044N	075W	22	NE1/4NW1/4	8	1501	1304	-105.856219	43.778528
P167070.0W	04/12/2005		Savageton Fed 14-32-4574	CBM	044N	075W	32	SW1/4SW1/4	85			-105.90483	43.73923
P167148.0W	04/13/2005		Pumpkin ButtesFED 23-33-4475	CBM	044N	075W	33	NE1/4SW1/4	85			-105.87907	43.74265
P167149.0W	04/13/2005		Pumpkin ButtesFED 34-28-4475	CBM	044N	075W	28	SW1/4SE1/4	85			-105.87408	43.75408
P167151.0W	04/13/2005		Pumpkin ButtesFED 43-28-4475	CBM	044N	075W	28	NE1/4SE1/4	85			-105.86879	43.75775
P167155.0W	04/13/2005		T Chair Fed 34-18-4475BG	CBM	044N	075W	18	SW1/4SE1/4	85			-105.91505	43.78345
P167193.0W	04/13/2005		Pumpkin Buttes Fed 12-34-4475	CBM	044N	075W	34	SW1/4NW1/4	85			-105.86365	43.74618
P167194.0W	04/13/2005		Pumpkin Buttes Fed 14-28-4475	CBM	044N	075W	28	SW1/4SW1/4	85			-105.88452	43.75431
P167195.0W	04/13/2005		Pumpkin Buttes Fed 23-28-4475	CBM	044N	075W	28	NE1/4SW1/4	85			-105.87924	43.75791
P167711.0W	05/10/2005		Hartzog Federal 12-5-4475BG	CBM	044N	075W	05	SW1/4NW1/4	30			-105.90371	43.81835
P167712.0W	05/10/2005	Complete	Hartzog Federal 21-5-4475BG	CBM	044N	075W	05	NE1/4NW1/4	30			-105.898481	43.8212
P167713.0W	05/10/2005		Hartzog Federal 32-5-4475BG	CBM	044N	075W	05	SW1/4NE1/4	30			-105.89364	43.81846
P167714.0W	05/10/2005		Hartzog Federal 34-5-4475BG	CBM	044N	075W	05	SW1/4SE1/4	30			-105.8941	43.81207
P167715.0W	05/10/2005	Complete	Hartzog Federal 41-5-4475BG	CBM	044N	075W	05	NE1/4NE1/4	30			-105.888411	43.821261
P167716.0W	05/10/2005	Complete	Hartzog Federal 43-5-4475BG	CBM	044N	075W	05	NE1/4SE1/4	30			-105.888861	43.815381
P167717.0W	05/10/2005		Hartzog Federal 12-6-4475BG	CBM	044N	075W	06	SW1/4NW1/4	30			-105.92391	43.81819
P167719.0W	05/10/2005	Complete	Hartzog Federal 21-6-4475BG	CBM	044N	075W	06	NE1/4NW1/4	30			-105.918589	43.821089
P167720.0W	05/10/2005	Complete	Hartzog Federal 32-6-4475BG	CBM	044N	075W	06	SW1/4NE1/4	30			-105.91375	43.818261
P167721.0W	05/10/2005	Complete	Hartzog Federal 41-6-4475BG	CBM	044N	075W	06	NE1/4NE1/4	30			-105.90855	43.82115
P167722.0W	05/10/2005		Hartzog Federal 12-31-4575BG	CBM	045N	075W	31	SW1/4NW1/4	30			-105.9267	43.83142
P167723.0W	05/10/2005		Hartzog Federal 14-31-4575BG	CBM	045N	075W	31	SW1/4SW1/4	30			-105.92661	43.8241
P167724.0W	05/10/2005	Complete	Hartzog Federal 21-31-4575BG	CBM	045N	075W	31	NE1/4NW1/4	30			-105.922039	43.835211
P167725.0W	05/10/2005		Hartzog Federal 23-31-4575BG	CBM	045N	075W	31	NE1/4SW1/4	30			-105.92178	43.82783
P167726.0W	05/10/2005	Complete	Hartzog Federal 32-31-4575BG	CBM	045N	075W	31	SW1/4NE1/4	30			-105.916028	43.832989
P167727.0W	05/10/2005	Complete	Hartzog Federal 34-31-4575BG	CBM	045N	075W	31	SW1/4SE1/4	30			-105.914958	43.824378
P167729.0W	05/10/2005	Complete	Hartzog Federal 43-31-4575BG	CBM	045N	075W	31	NE1/4SE1/4	30			-105.91115	43.828939
P167730.0W	05/10/2005	Complete	Hartzog Federal 14-32-4575BG	CBM	045N	075W	32	SW1/4SW1/4	30			-105.906711	43.824239
P167731.0W	05/10/2005	Complete	Hartzog Federal 34-32-4575BG	CBM	045N	075W	32	SW1/4SE1/4	30			-105.89755	43.824339
P167732.0W	05/10/2005		Hartzog Federal 41-32-4575BG	CBM	045N	075W	32	NE1/4NE1/4	30			-105.89203	43.83549
P167733.0W	05/10/2005		Hartzog Federal 14-33-4575BG	CBM	045N	075W	33	SW1/4SW1/4	30			-105.88654	43.82428
P167734.0W	05/10/2005		Hartzog State 12-36-4576BG	CBM	045N	076W	36	SW1/4NW1/4	30			-105.94545	43.8316
P167735.0W	05/10/2005	Complete	Hartzog State 32-36-4576BG	CBM	045N	076W	36	SW1/4NE1/4	30			-105.936328	43.831589
P167736.0W	05/10/2005	Complete	Hartzog State 41-36-4576BG	CBM	045N	076W	36	NE1/4NE1/4	30			-105.93045	43.835089
P167737.0W	05/10/2005	Complete	Hartzog State 43-36-4576BG	CBM	045N	076W	36	NE1/4SE1/4	30			-105.931819	43.827208
P168204.0W	04/19/2005		Savageton Fed 12-18-4475BG	CBM	044N	075W	18	SW1/4NW1/4	85			-105.92528	43.7904
P168205.0W	04/19/2005		Savageton Fed 21-18-4475BG	CBM	044N	075W	18	NE1/4NW1/4	85			-105.91991	43.79413

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P168206.0W	04/19/2005		Savageton Fed 23-18-4475BG	CBM	044N	075W	18	NE1/4SW1/4	85			-105.92013	43.78696
P168207.0W	04/19/2005		Savageton Fed 12-4-4475BG	CBM	044N	075W	04	SW1/4NW1/4	85			-105.88356	43.81856
P168208.0W	04/19/2005		Savageton Fed 14-4-4475BG	CBM	044N	075W	04	SW1/4SW1/4	85			-105.88395	43.81228
P168991.0W	07/18/2005		Savageton Fed 34-17-4475BG	CBM	044N	075W	17	SW1/4SE1/4	85			-105.89464	43.78358
P168992.0W	07/18/2005		Savageton Fed 23-17-4475BG	CBM	044N	075W	17	NE1/4SW1/4	85			-105.89966	43.78723
P168993.0W	07/18/2005		Savageton Fed 14-17-4475BG	CBM	044N	075W	17	SW1/4SW1/4	85			-105.90473	43.78358
P168994.0W	07/18/2005		Savageton Fed 12-17-4475BG	CBM	044N	075W	17	SW1/4NW1/4	85			-105.90466	43.79088
P169870.0W	08/15/2005		Savageton Fed 14-18-4475BG	CBM	044N	075W	18	SW1/4SW1/4	85			-105.92549	43.78488
P171232.0W	10/20/2005	Complete	Hartzog Federal 34-4-4475BG	CBM	044N	075W	04	SW1/4SE1/4	30			-105.872869	43.8129
P171233.0W	10/20/2005	Complete	Hartzog Federal 43-4-4475BG	CBM	044N	075W	04	NE1/4SE1/4	30			-105.8658	43.815353
P171234.0W	10/20/2005		Hartzog Federal 32-8-4475BG	CBM	044N	075W	08	SW1/4NE1/4	30			-105.894189	43.805908
P171235.0W	10/20/2005	Complete	Hartzog Federal 34-8-4475BG	CBM	044N	075W	08	SW1/4SE1/4	30			-105.8941	43.798208
P171236.0W	10/20/2005	Complete	Hartzog Federal 41-8-4475BG	CBM	044N	075W	08	NE1/4NE1/4	30			-105.888969	43.808758
P171237.0W	10/20/2005	Complete	Hartzog Federal 43-8-4475BG	CBM	044N	075W	08	NE1/4SE1/4	30			-105.889619	43.801689
P171238.0W	10/20/2005	Complete	Hartzog Federal 12-9-4475BG	CBM	044N	075W	09	SW1/4NW1/4	30			-105.883689	43.804969
P171239.0W	10/20/2005	Complete	Hartzog Federal 14-9-4475BG	CBM	044N	075W	09	SW1/4SW1/4	30			-105.884178	43.798289
P171240.0W	10/20/2005	Complete	Hartzog Federal 21-9-4475BG	CBM	044N	075W	09	NE1/4NW1/4	30			-105.878986	43.809244
P171241.0W	10/20/2005	Complete	Hartzog Federal 23-9-4475BG	CBM	044N	075W	09	NE1/4SW1/4	30			-105.877569	43.801319
P171242.0W	10/20/2005		Hartzog Federal 32-9-4475BG	CBM	044N	075W	09	SW1/4NE1/4	30			-105.872389	43.8047
P171243.0W	10/20/2005	Complete	Hartzog Federal 34-9-4475BG	CBM	044N	075W	09	SW1/4SE1/4	30			-105.87245	43.797839
P171244.0W	10/20/2005	Complete	Hartzog Federal 41-9-4475BG	CBM	044N	075W	09	NE1/4NE1/4	30			-105.867139	43.80835
P171245.0W	10/20/2005	Complete	Hartzog Federal 43-9-4475BG	CBM	044N	075W	09	NE1/4SE1/4	30			-105.867478	43.80065
P171246.0W	10/20/2005	Complete	Hartzog Federal 14-10-4475BG	CBM	044N	075W	10	SW1/4SW1/4	30			-105.861789	43.797228
P171247.0W	10/20/2005	Complete	Hartzog Federal 23-10-4475BG	CBM	044N	075W	10	NE1/4SW1/4	30			-105.855031	43.801331
P171263.0W	10/20/2005	Complete	Hartzog Federal 12-15-4475BG	CBM	044N	075W	15	SW1/4NW1/4	30			-105.861608	43.789639
P171264.0W	10/20/2005	Complete	Hartzog Federal 14-15-4475BG	CBM	044N	075W	15	SW1/4SW1/4	30			-105.865178	43.782819
P171265.0W	10/20/2005	Complete	Hartzog Federal 21-15-4475BG	CBM	044N	075W	15	NE1/4NW1/4	30			-105.855658	43.79425
P171266.0W	10/20/2005		Hartzog Federal 23-15-4475BG	CBM	044N	075W	15	NE1/4SW1/4	30			-105.856358	43.786408
P171801.0W	08/18/2005	Complete	North Butte CS State #4	CBM	044N	076W	16	SW1/4NW1/4	200	1478	375	-106.005281	43.789719
P172347.0W	11/14/2005	Expired	Christensen 21-32-4575	CBM	045N	075W	32	NE1/4NW1/4	45			-105.9024	43.83552
P172348.0W	11/14/2005		Christensen 23-32-4575	CBM	045N	075W	32	NE1/4SW1/4	45			-105.90191	43.82801
P172349.0W	11/14/2005		Christensen 43-32-4575	CBM	045N	075W	32	NE1/4SE1/4	45			-105.89173	43.82802
P172404.0W	11/14/2005		Christensen 14-5-4475	CBM	044N	075W	05	SW1/4SW1/4	45			-105.9041	43.81175
P172405.0W	11/14/2005		Christensen 23-6-4475	CBM	044N	075W	06	NE1/4SW1/4	45			-105.91898	43.81489
P172406.0W	11/14/2005		Christensen 34-6-4475	CBM	044N	075W	06	SW1/4SE1/4	45			-105.91415	43.81159
P172407.0W	11/14/2005		Christensen 43-6-4475	CBM	044N	075W	06	NE1/4SE1/4	45			-105.90894	43.81498
P172408.0W	11/14/2005		Christensen 32-7-4475	CBM	044N	075W	07	SW1/4NE1/4	45			-105.91444	43.80474
P172409.0W	11/14/2005		Christensen 41-7-4475	CBM	044N	075W	07	NE1/4NE1/4	45			-105.90927	43.80827
P172410.0W	11/14/2005		Christensen 12-8-4475	CBM	044N	075W	08	SW1/4NW1/4	45			-105.90435	43.80495
P176457.0W	07/26/2006	Incomplete	State 23-16-4475	CBM	044N	075W	16	NE1/4SW1/4	85			-105.87893	43.7872
P177903.0W	10/19/2006	Incomplete	TM-CBM Federal 4476-5-43	CBM	044N	076W	05	NE1/4SE1/4	20			-106.00955	43.8144
P177920.0W	10/19/2006	Incomplete	TM-CBM Federal 4476-8-41	CBM	044N	076W	08	NE1/4NE1/4	20			-106.00985	43.8077
P177921.0W	10/19/2006	Incomplete	TM-CBM Federal 4476-8-43	CBM	044N	076W	08	NE1/4SE1/4	20			-106.01041	43.80057
P178931.0W	12/26/2006		Savageton Fed 14-8-5475BG	CBM	044N	075W	08	SW1/4SW1/4	85			-105.90455	43.79807

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P178932.0W	12/26/2006		Savageton Fed 34-7-4475BG	CBM	044N	075W	07	SW1/4SE1/4	85			-105.91469	43.79783
P180383.0W	03/12/2007		Pumpkin Buttes Fed 43-33-4475BG	CBM	044N	075W	33	NE1/4SE1/4	85			-105.86868	43.74243
P180384.0W	03/12/2007		Pumpkin Buttes Fed 23-33-4475BG	CBM	044N	075W	33	NE1/4SW1/4	85			-105.87907	43.74265
P180385.0W	03/12/2007		Pumpkin Buttes Fed 12-34-4475BG	CBM	044N	075W	34	SW1/4NW1/4	85			-105.86365	43.74618
P180451.0W	03/14/2007		Christensen Fed 41-17-4476	CBM	044N	076W	17	NE1/4NE1/4	45			-106.01079	43.79342
P180965.0W	04/02/2007		23-32-4575 Christensen	CBM	045N	075W	32	NE1/4SW1/4	30			-105.901381	43.8288
P180966.0W	04/02/2007		43-32-4575 Christensen	CBM	045N	075W	32	NE1/4SE1/4	30			-105.892456	43.827831
P180968.0W	04/02/2007		12-8-4475 Christensen	CBM	044N	075W	08	SW1/4NW1/4	30			-105.904819	43.805314
P180969.0W	04/02/2007	Complete	41-7-4475 Christensen	CBM	044N	075W	07	NE1/4NE1/4	30			-105.909269	43.808269
P180970.0W	04/02/2007	Complete	32-7-4475 Christensen	CBM	044N	075W	07	SW1/4NE1/4	30			-105.914439	43.804739
P180971.0W	04/02/2007		43-6-4475 Christensen	CBM	044N	075W	06	NE1/4SE1/4	30			-105.909103	43.815206
P180972.0W	04/02/2007		34-6-4475 Christensen	CBM	044N	075W	06	SW1/4SE1/4	30			-105.91415	43.81159
P180973.0W	04/02/2007		23-6-4475 Christensen	CBM	044N	075W	06	NE1/4SW1/4	30			-105.918703	43.814875
P180974.0W	04/02/2007		14-5-4475 Christensen	CBM	044N	075W	05	SW1/4SW1/4	30			-105.904811	43.812006
P181720.0W	04/30/2007	Complete	Dry Willow Fee 4475 30-32	CBM	044N	075W	30	SW1/4NE1/4	85			-105.915069	43.761589
P181721.0W	04/30/2007	Complete	Dry Willow Fee 4475 30-34	CBM	044N	075W	30	SW1/4SE1/4	85			-105.915019	43.754311
P181722.0W	04/30/2007		Dry Willow Fee 4475 31-12	CBM	044N	075W	31	SW1/4NW1/4	85			-105.92561	43.74689
P181723.0W	04/30/2007	Complete	Dry Willow Fee 4475 31-14	CBM	044N	075W	31	SW1/4SW1/4	85			-105.925661	43.739539
P181724.0W	04/30/2007	Complete	Dry Willow Fee 4475 31-41	CBM	044N	075W	31	NE1/4NE1/4	85			-105.909819	43.750639
P181725.0W	04/30/2007	Incomplete	Dry Willow Fee 4476 26-12	CBM	044N	076W	26	SW1/4NW1/4	85			-105.965692	43.761886
P181726.0W	04/30/2007	Complete	Dry Willow Fee 4476 26-23	CBM	044N	076W	26	NE1/4SW1/4	85			-105.960761	43.758119
P181727.0W	04/30/2007	Incomplete	Dry Willow Fee 4476 26-43	CBM	044N	076W	26	NE1/4SE1/4	85			-105.950811	43.758192
P181728.0W	04/30/2007	Complete	Dry Willow Fee 4476 35-12	CBM	044N	076W	35	SW1/4NW1/4	85			-105.965839	43.746969
P182188.0W	05/10/2007	Complete	Dry Willow Fee 4476 35-14	CBM	044N	076W	35	SW1/4SW1/4	85			-105.965861	43.739531
P182189.0W	05/10/2007	Complete	Dry Willow Fee 4475 30-23	CBM	044N	075W	30	NE1/4SW1/4	85			-105.92025	43.7579
P182190.0W	05/10/2007	Complete	Dry Willow Fee 4475 30-21	CBM	044N	075W	30	NE1/4NW1/4	85			-105.920281	43.765189
P182191.0W	05/10/2007	Complete	Dry Willow Fee 4475 30-14	CBM	044N	075W	30	SW1/4SW1/4	85			-105.925569	43.754219
P182192.0W	05/10/2007	Complete	Dry Willow Fee 4475 29-14	CBM	044N	075W	29	SW1/4SW1/4	85			-105.9047	43.754369
P182193.0W	05/10/2007	Incomplete	Dry Willow Fee 4475 20-34	CBM	044N	075W	20	SW1/4SE1/4	85			-105.894603	43.769033
P182194.0W	05/10/2007	Incomplete	Dry Willow Fee 4475 20-23	CBM	044N	075W	20	NE1/4SW1/4	85			-105.899706	43.772608
P182195.0W	05/10/2007	Incomplete	Dry Willow Fee 4475 20-14	CBM	044N	075W	20	SW1/4SW1/4	85			-105.904764	43.768992
P182196.0W	05/10/2007	Complete	Dry Willow Fee 4475 20-12	CBM	044N	075W	20	SW1/4NW1/4	85			-105.904761	43.776269
P182197.0W	05/10/2007	Complete	Dry Willow Fee 4475 19-43	CBM	044N	075W	19	NE1/4SE1/4	85			-105.909911	43.772581
P182456.0W	05/16/2007	Incomplete	Dry Willow Fed 4476 24-43	CBM	044N	076W	24	NE1/4SE1/4	85			-105.930792	43.772517
P182466.0W	06/11/2007	Incomplete	Dry Willow Fed 4376 3-34	CBM	043N	076W	03	SW1/4SE1/4	85			-105.975672	43.724708
P182467.0W	06/11/2007	Complete	Dry Willow Fed 4376 3-22	CBM	043N	076W	03	SE1/4NW1/4	85			-105.980889	43.732061
P182468.0W	06/11/2007	Complete	Dry Willow Fed 4376 3-14	CBM	043N	076W	03	SW1/4SW1/4	85			-105.985869	43.72465
P182627.0W	06/14/2007		Dry Willow Fee 4476 24-43	CBM	044N	076W	24	NE1/4SE1/4	85			-105.93083	43.77242
P182630.0W	06/14/2007	Incomplete	TM-CBM Fed 4576 34-12	CBM	045N	076W	34	SW1/4NW1/4	85			-105.986819	43.831031
P182631.0W	06/14/2007	Incomplete	TM-CBM Fed 4576 34-14	CBM	045N	076W	34	SW1/4SW1/4	85			-105.986667	43.823656
P182632.0W	06/14/2007	Incomplete	TM-CBM Fed 4576 34-21	CBM	045N	076W	34	NE1/4NW1/4	85			-105.981947	43.834761
P182633.0W	06/14/2007	Incomplete	TM-CBM Fed 4576 34-23	CBM	045N	076W	34	NE1/4SW1/4	85			-105.9817	43.827308
P182634.0W	06/14/2007	Incomplete	TM-CBM Fed 4576 34-32	CBM	045N	076W	34	SW1/4NE1/4	85			-105.976803	43.831208
P182738.0W	05/24/2007	Complete	Dry Willow Fee 4476 26-21	CBM	044N	076W	26	NE1/4NW1/4	85			-105.960669	43.765481

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P183893.0W	07/16/2007	Complete	Dry Willow Fed 4376 4-43	CBM	043N	076W	04	NE1/4SE1/4	85			-105.990936	43.727889
P183903.0W	07/16/2007	Incomplete	TM-CBM 4376 2-23	CBM	043N	076W	02	NE1/4SW1/4	85			-105.960797	43.727828
P184094.0W	08/15/2007	Incomplete	Dry Willow Fed 4476 24-12	CBM	044N	076W	24	SW1/4NW1/4	85			-105.946106	43.776031
P184095.0W	08/15/2007	Complete	Dry Willow Fed 4476 24-14	CBM	044N	076W	25	NW1/4NW1/4	85			-105.946942	43.767075
P184096.0W	08/15/2007	Incomplete	Dry Willow Fed 4476 24-21	CBM	044N	076W	24	NE1/4NW1/4	85			-105.941169	43.779911
P184097.0W	08/15/2007	Incomplete	Dry Willow Fed 4476 24-23	CBM	044N	076W	24	NE1/4SW1/4	85			-105.941033	43.772819
P184098.0W	08/15/2007	Incomplete	Dry Willow Fed 4476 24-32	CBM	044N	076W	24	SW1/4NE1/4	85			-105.935886	43.775664
P184099.0W	08/15/2007	Incomplete	Dry Willow Fed 4476 24-41	CBM	044N	076W	24	NE1/4NE1/4	85			-105.930828	43.779539
P184100.0W	08/15/2007	Incomplete	Dry Willow Fed 4476 25-12	CBM	044N	076W	25	SW1/4NE1/4	85			-105.936406	43.761872
P184101.0W	08/15/2007	Complete	Dry Willow Fed 4476 25-21	CBM	044N	076W	25	NE1/4NW1/4	85			-105.940483	43.765689
P184102.0W	08/15/2007	Complete	Dry Willow Fee 4475 19-32	CBM	044N	075W	19	SW1/4NE1/4	85			-105.915247	43.776167
P184103.0W	08/15/2007	Complete	Dry Willow Fee 4475 19-41	CBM	044N	075W	19	NE1/4NE1/4	85			-105.909828	43.780244
P184104.0W	08/15/2007	Complete	Dry Willow Fee 4476 25-23	CBM	044N	076W	25	NE1/4SW1/4	85			-105.94075	43.757733
P184144.0W	09/20/2007	Complete	Dry Willow Fed 4376 4-34	CBM	043N	076W	04	SW1/4SE1/4	85			-105.995922	43.724128
P184162.0W	10/01/2007	Incomplete	Savageton Fed 12-7-4475	CBM	044N	075W	07	SW1/4NW1/4	85			-105.924689	43.804061
P184163.0W	10/01/2007	Incomplete	Savageton Fed 23-7-4475	CBM	044N	075W	07	NE1/4SW1/4	85			-105.919597	43.800667
P184164.0W	10/01/2007	Incomplete	Savageton Fed 43-7-4475	CBM	044N	075W	07	NE1/4SE1/4	85			-105.909467	43.800917
P184215.0W	09/04/2007	Complete	Dry Willow Fed 4376 3-41	CBM	043N	076W	03	NE1/4NE1/4	85			-105.970861	43.735308
P184546.0W	10/19/2007	Incomplete	Christensen-Fed 21-4-4476	CBM	044N	076W	04	NE1/4NW1/4	45			-105.999231	43.820553
P184547.0W	10/19/2007	Incomplete	Christensen-Fed 41-4-4476	CBM	044N	076W	04	NE1/4NE1/4	45			-105.987719	43.820678
P184549.0W	10/19/2007	Incomplete	Christensen-Fed 41-5-4476	CBM	044N	076W	05	NE1/4NE1/4	45			-106.008783	43.820447
P185278.0W	12/20/2007	Incomplete	Savageton Fed 12-32-45-75	CBM	045N	075W	32	SW1/4NW1/4	85			-105.907322	43.832114
P185431.0W	06/19/2007	Incomplete	TM-CBM Federal 4576 34-34	CBM	045N	076W	34	SW1/4SE1/4	85			-105.976692	43.823272
P185432.0W	06/19/2007	Incomplete	TM-CBM Federal 4576 34-41	CBM	045N	076W	34	NE1/4NE1/4	85			-105.971869	43.834411
P185433.0W	06/19/2007	Incomplete	TM-CBM Federal 4576 34-43	CBM	045N	076W	34	NE1/4SE1/4	85			-105.971714	43.827017
P185785.0W	02/13/2008	Complete	Dry Willow Fed 4475 19-12	CBM	044N	075W	19	SW1/4NW1/4	1	1869	1601.61	-105.924989	43.776331
P185786.0W	02/13/2008	Complete	Dry Willow Fed 4475 20-21	CBM	044N	075W	20	NE1/4NW1/4	5	1747	1495.13	-105.89955	43.779781
P185787.0W	02/13/2008	Complete	Dry Willow Fed 4475 20-32	CBM	044N	075W	20	SW1/4NE1/4	1	1720	1553	-105.895239	43.776311
P185788.0W	02/13/2008	Complete	Dry Willow Fed 4475 20-41	CBM	044N	075W	20	NE1/4NE1/4	10	1800	1589.02	-105.889739	43.780031
P185789.0W	02/13/2008	Complete	Dry Willow Fed 4475 20-43	CBM	044N	075W	20	NE1/4SE1/4	15	1812	1537.86	-105.889631	43.773211
P185797.0W	02/13/2008	Complete	Dry Willow Fed 4476 26-14	CBM	044N	076W	26	SW1/4SW1/4	12	1651	1410.51	-105.965181	43.754839
P185801.0W	02/13/2008	Complete	Dry Willow Fed 4475 29-23	CBM	044N	075W	29	NE1/4SW1/4	1	1806	1516.5	-105.899011	43.757769
P185802.0W	02/13/2008	Complete	Dry Willow Fed 4475 29-32	CBM	044N	075W	29	SW1/4NE1/4	1	1817	1564.67	-105.893889	43.7623
P185803.0W	02/13/2008	Complete	Dry Willow Fed 4475 29-34	CBM	044N	075W	29	SW1/4SE1/4	26	1779	1500.74	-105.8941	43.754269
P185804.0W	02/13/2008	Complete	Dry Willow Fed 4475 31-23	CBM	044N	075W	31	NE1/4SW1/4	1	1778	1591.78	-105.920311	43.743019
P185805.0W	02/13/2008	Complete	Dry Willow Fed 4475 31-32	CBM	044N	075W	31	SW1/4NE1/4	1	1891	1687.9	-105.915169	43.746989
P185806.0W	02/13/2008	Incomplete	Dry Willow Fed 4475 31-34	CBM	044N	075W	31	SW1/4SE1/4	85			-105.915031	43.739044
P185807.0W	02/13/2008	Complete	Dry Willow Fed 4476 35-21	CBM	044N	076W	35	NE1/4NW1/4	1	1690	1496.42	-105.961511	43.750989
P185808.0W	02/13/2008	Complete	Dry Willow Fed 4476 35-23	CBM	044N	076W	35	NE1/4SW1/4	1	1750	1475.19	-105.960439	43.7433
P185809.0W	02/13/2008	Complete	Dry Willow Fed 4476 35-32	CBM	044N	076W	35	SW1/4NE1/4	1	1683	1507.44	-105.955411	43.747019
P185810.0W	02/13/2008	Complete	Dry Willow Fed 4476 35-43	CBM	044N	076W	35	NE1/4SE1/4	1	1596	1381.69	-105.950869	43.7433
P185813.0W	02/13/2008	Complete	Dry Willow Fed 4376 10-41	CBM	043N	076W	10	NE1/4NE1/4	1	1690	1371	-105.971239	43.721181
P185815.0W	02/13/2008	Complete	Dry Willow Fed 4376 3-12	CBM	043N	076W	03	SW1/4NW1/4	1	1965	1732.7	-105.98665	43.731539
P185816.0W	02/13/2008	Complete	Dry Willow Fed 4376 2-41	CBM	043N	076W	02	NE1/4NE1/4	1	1561	1218.2	-105.95025	43.736319

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P185817.0W	02/13/2008	Complete	Dry Willow Fed 4376 2-32	CBM	043N	076W	02	SW1/4NE1/4	1	1743	1539.39	-105.954331	43.732031
P185818.0W	02/13/2008	Complete	Dry Willow Fed 4376 2-21	CBM	043N	076W	02	NE1/4NW1/4	1	1717	1480.5	-105.961581	43.735369
P185819.0W	02/13/2008	Complete	Dry Willow Fed 4475 31-21	CBM	044N	075W	31	NE1/4NW1/4	1	1847	1621.76	-105.92085	43.7502
P185820.0W	02/13/2008	Complete	Dry Willow Fed 4376 11-41	CBM	043N	076W	11	NE1/4NE1/4	1	1800	1639.47	-105.950831	43.720589
P185822.0W	02/13/2008	Complete	Dry Willow Fed 4376 11-21	CBM	043N	076W	11	NE1/4NW1/4	1	1700	1473.71	-105.960181	43.7211
P187373.0W	04/25/2008	Incomplete	Dry Willow Fed 4476 24-41	CBM	044N	076W	24	NE1/4NE1/4	85			-105.930861	43.77975
P187374.0W	04/25/2008	Incomplete	Dry Willow Fed 4476 24-43	CBM	044N	076W	24	NE1/4SE1/4	85			-105.930867	43.772369
P187375.0W	04/25/2008	Complete	Dry Willow Fed 4476 35-34	CBM	044N	076W	35	SW1/4SE1/4	1	1532	1475.19	-105.9548	43.740261
P187376.0W	04/25/2008	Complete	Dry Willow Fee 4476 26-12	CBM	044N	076W	26	SW1/4NW1/4	19	1698	1498.8	-105.96645	43.76175
P187377.0W	04/25/2008	Complete	Dry Willow Fed 4476 35-41	CBM	044N	076W	35	NE1/4NE1/4	1	1665	1541.97	-105.952019	43.751111
P187378.0W	04/25/2008	Complete	Dry Willow Fed 4376 4-32	CBM	043N	076W	04	SW1/4NE1/4	1	1880	1674.16	-105.996069	43.732289
P187379.0W	04/25/2008	Complete	Dry Willow Fed 4376 4-41	CBM	043N	076W	04	NE1/4NE1/4	1	1930	1637.83	-105.990489	43.736069
P187380.0W	04/25/2008	Incomplete	Dry Willow Fed 4475 19-21	CBM	044N	075W	19	NE1/4NW1/4	85			-105.917731	43.780919
P187381.0W	04/25/2008	Complete	Dry Willow Fed 4475 29-43	CBM	044N	075W	29	NE1/4SE1/4	1	1770	1571.73	-105.888031	43.75915
P187382.0W	04/25/2008	Complete	Dry Willow Fed 4475 31-43	CBM	044N	075W	31	NE1/4SE1/4	1	1820	1618.85	-105.910819	43.744369
P187383.0W	04/25/2008	Complete	Dry Willow Fee 4475 19-14	CBM	044N	075W	19	SW1/4SW1/4	9	1687	1357.87	-105.926819	43.7705
P187384.0W	04/25/2008	Complete	Dry Willow Fed 4376 3-32	CBM	043N	076W	03	SW1/4NE1/4	1	1991	1725.83	-105.975661	43.732531
P187385.0W	04/25/2008	Complete	Dry Willow Fed 4376 4-12	CBM	043N	076W	04	SW1/4NW1/4	1	1940	1673.46	-106.006631	43.731981
P187386.0W	04/25/2008	Complete	Dry Willow Fed 4376 4-14	CBM	043N	076W	04	SW1/4SW1/4	1	1820	1541.8	-106.006031	43.72455
P187387.0W	04/25/2008	Complete	Dry Willow Fed 4376 4-21	CBM	043N	076W	04	NE1/4NW1/4	11	1980	1704	-106.001989	43.736039
P187388.0W	04/25/2008	Complete	Dry Willow Fed 4376 4-23	CBM	043N	076W	04	NE1/4SW1/4	1	1880	1631.9	-106.000761	43.728331
P187393.0W	04/25/2008	Complete	Dry Willow Fed 4376 3-23	CBM	043N	076W	03	NE1/4SW1/4	1	2002	1768.29	-105.98075	43.728019
P187883.0W	06/24/2008	Complete	Dry Willow Fed 4376 3-43	CBM	043N	076W	03	NE1/4SE1/4	1	1800	1619.73	-105.9708	43.727808
P189222.0W	10/20/2008	Complete	T Chair Land 29S-3	CBM	044N	075W	29	NE1/4NW1/4	3	1633	1539.63	-105.8997	43.765389
P189223.0W	10/20/2008	Complete	T Chair Land 30S-1	CBM	044N	075W	30	NE1/4NE1/4	1	1607	1476.55	-105.910419	43.765131
P190546.0W	03/31/2009	Incomplete	Dry Willow Fed 4376 12-21	CBM	043N	076W	12	NE1/4NW1/4	85			-105.940831	43.720628
P190547.0W	03/31/2009	Incomplete	Dry Willow Fed 4376 1-34	CBM	043N	076W	01	SW1/4SE1/4	85			-105.935906	43.724261
P190548.0W	03/31/2009	Incomplete	Dry Willow Fed 4376 1-41	CBM	043N	076W	01	NE1/4NE1/4	85			-105.930894	43.735475
P190549.0W	03/31/2009	Incomplete	Dry Willow Fed 4376 1-43	CBM	043N	076W	01	NE1/4SE1/4	85			-105.930994	43.727947
P190550.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 23-21	CBM	044N	076W	23	NE1/4NW1/4	85			-105.960533	43.77945
P190551.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 23-12	CBM	044N	076W	23	SW1/4NW1/4	85			-105.965522	43.775892
P190553.0W	03/31/2009	Complete	Christensen Fed 4476 33-14	CBM	044N	076W	33	SW1/4SW1/4	85			-106.006147	43.738881
P190554.0W	03/31/2009	Complete	Christensen Fed 4476 33-12	CBM	044N	076W	33	SW1/4NW1/4	85			-106.005942	43.746169
P190555.0W	03/31/2009	Complete	Christensen Fed 4476 28-23	CBM	044N	076W	28	NE1/4SW1/4	85			-106.000853	43.757331
P190556.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 34-34	CBM	044N	076W	34	SW1/4SE1/4	85			-105.975897	43.739022
P190558.0W	03/31/2009	Incomplete	Dry Willow Fee 4376 1-12	CBM	043N	076W	01	SW1/4NW1/4	85			-105.945967	43.731703
P190559.0W	03/31/2009	Incomplete	Dry Willow Fee 4376 1-32	CBM	043N	076W	01	SW1/4NE1/4	85			-105.935908	43.731589
P190560.0W	03/31/2009	Incomplete	Dry Willow Fee 4376 1-21	CBM	043N	076W	01	NE1/4NW1/4	85			-105.940878	43.735364
P190561.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 22-34	CBM	044N	076W	22	SW1/4SE1/4	85			-105.975578	43.768753
P190562.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 22-43	CBM	044N	076W	22	NE1/4SE1/4	85			-105.970492	43.772344
P190563.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 23-14	CBM	044N	076W	23	SW1/4SW1/4	85			-105.965617	43.768678
P190564.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 26-43	CBM	044N	076W	26	NE1/4SE1/4	85			-105.950758	43.757597
P190566.0W	03/31/2009	Incomplete	Dry Willow Fee 4376 1-23	CBM	043N	076W	01	NE1/4SW1/4	85			-105.940819	43.728031
P190569.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 34-32	CBM	044N	076W	34	SW1/4NE1/4	85			-105.975931	43.746581

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P190570.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 34-14	CBM	044N	076W	34	SW1/4SW1/4	85			-105.985981	43.738953
P190571.0W	03/31/2009	Complete	Dry Willow Fed 4476 27-43	CBM	044N	076W	27	NE1/4SE1/4	23	1634	1418.2	-105.97155	43.759628
P190572.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 27-41	CBM	044N	076W	27	NE1/4NE1/4	85			-105.970606	43.765047
P190573.0W	03/31/2009	Incomplete	Dry Willow Fee 4476 27-34	CBM	044N	076W	27	SW1/4SE1/4	85			-105.975886	43.754047
P190574.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 27-23	CBM	044N	076W	27	NE1/4SW1/4	85			-105.980828	43.757811
P190575.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 23-43	CBM	044N	076W	23	NE1/4SE1/4	85			-105.95085	43.772175
P190576.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 23-32	CBM	044N	076W	23	SW1/4NE1/4	85			-105.955619	43.775822
P190577.0W	03/31/2009	Incomplete	Dry Willow Fed 4476 23-23	CBM	044N	076W	23	NE1/4SW1/4	85			-105.960628	43.7722
P190578.0W	03/31/2009	Incomplete	Dry Willow Fee 4376 1-14	CBM	043N	076W	01	SW1/4SW1/4	85			-105.945903	43.724206
P190589.0W	03/31/2009	Complete	Christensen FED 4476 28-21	CBM	044N	076W	28	NE1/4NW1/4	85			-106.000658	43.764603
P190590.0W	03/31/2009	Complete	Christensen FED 4476 28-14	CBM	044N	076W	28	SW1/4SW1/4	85			-106.005917	43.753392
P190591.0W	03/31/2009	Complete	Christensen FED 4476 28-12	CBM	044N	076W	28	SW1/4NW1/4	85			-106.005806	43.7607
P190628.0W	03/31/2009	Incomplete	Savageton Fed 21-7-4475	CBM	044N	075W	07	NE1/4NW1/4	85			-105.919467	43.807656
P190631.0W	03/31/2009	Incomplete	Savageton Fed 41-32-4575	CBM	045N	075W	32	NE1/4NE1/4	85			-105.892017	43.835097
P190632.0W	03/31/2009	Incomplete	Savageton Fed 12-32-4575	CBM	045N	075W	32	SW1/4NW1/4	85			-105.907278	43.831306
P190633.0W	03/31/2009	Incomplete	Savageton Fed 12-33-4575	CBM	045N	075W	33	SW1/4NW1/4	85			-105.886811	43.831964
P190706.0W	03/31/2009	Complete	Christensen Fed 4476 33-23	CBM	044N	076W	33	NE1/4SW1/4	85			-106.001061	43.742586
P190707.0W	03/31/2009	Complete	Christensen Fed 4476 33-34	CBM	044N	076W	33	SW1/4SE1/4	85			-105.996033	43.739017
P190708.0W	03/31/2009	Complete	Christensen Fed 4476 33-43	CBM	044N	076W	33	NE1/4SE1/4	85			-105.990983	43.742775
P190709.0W	03/31/2009	Complete	Christensen Fed 4476 33-21	CBM	044N	076W	33	NE1/4NW1/4	85			-106.000997	43.749925
P190761.0W	04/16/2009	Incomplete	Christensen Fed 4476 27-21	CBM	044N	076W	27	NE1/4NW1/4	85			-105.980636	43.765336
P190762.0W	04/16/2009	Incomplete	Christensen Fed 4476 27-32	CBM	044N	076W	27	SW1/4NE1/4	85			-105.975781	43.761556
P190770.0W	04/16/2009	Incomplete	TM-CBM Fed 4476 5-43	CBM	044N	076W	05	NE1/4SE1/4	85			-106.009464	43.813975
P190772.0W	04/16/2009	Incomplete	TM-CBM Fed 4476 8-41	CBM	044N	076W	08	NE1/4NE1/4	85			-106.009872	43.807317
P190773.0W	04/16/2009	Incomplete	TM-CBM Fed 4476 8-43	CBM	044N	076W	08	NE1/4SE1/4	85			-106.010319	43.800042
P192396.0W	02/10/2010	Incomplete	Dry Willow Fee 4476 34-41	CBM	044N	076W	34	NE1/4NE1/4	85			-105.970811	43.750103
P192397.0W	02/10/2010	Incomplete	Dry Willow Fee 4476 34-43	CBM	044N	076W	34	NE1/4SE1/4	85			-105.970883	43.742997
P193575.0W	07/22/2010	Incomplete	Christensen 4476 28-41	CBM	044N	076W	28	NE1/4NE1/4	85			-105.990631	43.765342
P193576.0W	07/22/2010	Incomplete	Christensen 4476 28-34	CBM	044N	076W	28	SW1/4SE1/4	85			-105.995833	43.753908
P193577.0W	07/22/2010	Incomplete	Christensen 4476 21-34	CBM	044N	076W	21	SW1/4SE1/4	85			-105.995647	43.768494
P193578.0W	07/22/2010	Incomplete	Christensen 4476 33-41	CBM	044N	076W	33	NE1/4NE1/4	85			-105.990906	43.750453
P193579.0W	07/22/2010	Incomplete	Christensen 4476 28-43	CBM	044N	076W	28	NE1/4SE1/4	85			-105.990892	43.757681
P193580.0W	07/22/2010	Incomplete	Christensen 4476 33-32	CBM	044N	076W	33	SW1/4NE1/4	85			-105.996064	43.746303
P193746.0W	08/11/2010	Incomplete	Christensen 4476 21-32	CBM	044N	076W	21	SE1/4NE1/4	85			-105.991831	43.776108
P193747.0W	08/11/2010	Incomplete	Christensen 4476 21-41	CBM	044N	076W	21	NE1/4NE1/4	85			-105.989483	43.7797
P193748.0W	08/11/2010	Incomplete	Christensen 4476 28-32	CBM	044N	076W	28	SW1/4NE1/4	85			-105.994019	43.761942
P193773.0W	08/23/2010	Incomplete	Christensen 4476 34-12	CBM	044N	076W	34	SW1/4NW1/4	85			-105.986619	43.7472
P193774.0W	08/23/2010	Incomplete	Christensen 4476 34-21	CBM	044N	076W	34	NE1/4NW1/4	85			-105.981639	43.750969
P193776.0W	08/23/2010	Incomplete	T-Chair Fed 4376 3-33	CBM	043N	076W	03	NW1/4SE1/4	85			-105.976789	43.72725
P194364.0W	10/06/2010	Incomplete	Christensen Fed 4476 27-12	CBM	044N	076W	27	SW1/4NW1/4	85			-105.984789	43.761981
P194367.0W	10/15/2010	Incomplete	TRAIN CS Federal #04	CBM	044N	076W	22	SW1/4SW1/4	200			-105.985553	43.769128
P194608.0W	12/01/2010	Incomplete	Dry Willow Fee 4475 19-23	CBM	044N	075W	19	NE1/4SW1/4	85			-105.920111	43.772681
P194628.0W	12/23/2010	Incomplete	Miracle Maker CS Federal #02	CBM	044N	076W	22	SW1/4NE1/4	200			-105.975611	43.776447
P194666.0W	01/03/2011	Incomplete	Train CS Federal #02	CBM	044N	076W	22	SW1/4NW1/4	200			-105.9854	43.776033

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P196183.0W	06/28/2011	Incomplete	Dry Willow Fed 4475 19-21	CBM	044N	075W	19	NE1/4NW1/4	85			-105.919172	43.780664
P196184.0W	06/28/2011	Incomplete	Dry Willow Fed 4476 34-36	CBM	044N	076W	36	SW1/4SE1/4	85			-105.935869	43.739639
P196213.0W	06/28/2011	Incomplete	TM-CBM Fee 4576 33-32	CBM	045N	076W	33	SW1/4NE1/4	85			-105.9967	43.829878
P196214.0W	06/28/2011	Incomplete	TM-CBM Fee 4576 33-41	CBM	045N	076W	33	NE1/4NE1/4	85			-105.990881	43.833644
P196670.0W	08/15/2011	Incomplete	TM-CBM Fee 4476 8-44	CBM	044N	076W	08	SE1/4SE1/4	85			-106.009417	43.797633
P196951.0W	10/06/2011	Incomplete	J Christensen Fed 32-4-4476	CBM	044N	076W	04	SW1/4NE1/4	60			-105.994275	43.817297
P196952.0W	10/06/2011	Incomplete	J Christensen Fed 32-3-4476	CBM	044N	076W	03	SW1/4NE1/4	60			-105.974114	43.817422
P196953.0W	10/06/2011	Incomplete	J Christensen Fed 12-4-4476	CBM	044N	076W	04	SW1/4NW1/4	60			-106.004369	43.817225
P196954.0W	10/06/2011	Incomplete	J Christensen Fed 12-3-4476	CBM	044N	076W	03	SW1/4NW1/4	60			-105.984194	43.817461
P196955.0W	10/06/2011	Incomplete	J Christensen Fed 23-4-4476	CBM	044N	076W	04	NE1/4SW1/4	60			-105.999428	43.813892
P196956.0W	10/06/2011	Incomplete	J Christensen Fed 14-4-4476	CBM	044N	076W	04	SW1/4SW1/4	60			-106.00465	43.810653
P196957.0W	10/06/2011	Incomplete	J Christensen Fed 21-3-4476	CBM	044N	076W	03	NE1/4NW1/4	60			-105.979153	43.820203
P188301.0W	07/08/2008	Complete	T-Chair Fed 21-9-4376	CBM; MIS	043N	076W	09	NE1/4NW1/4	60			-106.000992	43.720353
P188304.0W	07/08/2008	Complete	T-Chair Fed 41-9-189	CBM; MIS	043N	076W	09	NE1/4NE1/4	60			-105.990944	43.720447
P115897.0W	05/17/1999	Complete	PB-CBM A36-8	CBM; STK	044N	076W	36	SE1/4SE1/4	60	1601	200	-105.93089	43.73958
P115898.0W	05/17/1999	Complete	PB-CBM A36-7	CBM; STK	044N	076W	36	NW1/4SE1/4	60	1340	200	-105.93584	43.74327
P115899.0W	05/17/1999	Complete	PB-CBM A36-6	CBM; STK	044N	076W	36	SE1/4SW1/4	60	1417	200	-105.94087	43.73958
P115900.0W	05/17/1999	Complete	PB-CBM A36-5	CBM; STK	044N	076W	36	NW1/4SW1/4	60	1476	200	-105.94585	43.74332
P115901.0W	05/17/1999	Complete	PB-CBM A36-4	CBM; STK	044N	076W	36	SE1/4NE1/4	60	1586	200	-105.93083	43.74691
P115902.0W	05/17/1999	Complete	PB-CBM A36-3	CBM; STK	044N	076W	36	NW1/4NE1/4	60	1683	200	-105.93575	43.75062
P115903.0W	05/17/1999	Complete	PB-CBM A36-2	CBM; STK	044N	076W	36	SE1/4NW1/4	60	1620	200	-105.94079	43.747
P115904.0W	05/17/1999	Complete	PB-CBM A36-1	CBM; STK	044N	076W	36	NW1/4NW1/4	60	1690	200	-105.9458	43.75078
P132838.0W	02/26/2001	Incomplete	North Butte CS State #7	CBM; STK	044N	076W	16	NE1/4SW1/4	200			-106.000542	43.786278
P132839.0W	02/26/2001	Incomplete	North Butte CS State #5	CBM; STK	044N	076W	16	SW1/4NE1/4	200			-105.99556	43.79009
P135683.0W	06/14/2001		T Chair Land 30S-5	CBM; STK	044N	075W	30	SW1/4NW1/4	30			-105.9256	43.76149
P145914.0W	07/16/2002	Incomplete	Train CS Federal # 1	CBM; STK	044N	076W	22	NE1/4NW1/4	200			-105.98038	43.77997
P149751.0W	02/19/2003		T-Chair Ranch 43-18-4475	CBM; STK	044N	075W	18	NE1/4SE1/4	75			-105.9098	43.78717
P152653.0W	06/20/2003	Complete	Pumpkin Buttes Ranch 14-34-4475	CBM; STK	044N	075W	34	SW1/4SW1/4	12	1621	1495.8	-105.863461	43.7384
P185784.0W	02/13/2008	Incomplete	Dry Willow Fed 4476 26-41	CBM; STK	044N	076W	26	NE1/4NE1/4	85			-105.950664	43.764844
P191599.0W	08/03/2009	Incomplete	Christensen CS State #01	CBM; STK	044N	076W	16	SW1/4SE1/4	200			-105.995383	43.782544
P191600.0W	08/03/2009	Complete	North Butte CS State #03	CBM; STK	044N	076W	16	NE1/4NW1/4	200	1405	482	-106.000011	43.793558
P191601.0W	08/03/2009	Complete	North Butte CS State #06	CBM; STK	044N	076W	16	NE1/4SE1/4	200	1540	469	-105.990078	43.786619
P191602.0W	08/03/2009	Complete	North Butte CS State #08	CBM; STK	044N	076W	16	SW1/4SW1/4	200	1442	273	-106.006239	43.783208
P195117.0W	02/22/2011	Incomplete	North Butte CS State NO 1	CBM;STK	044N	076W	16	SE1/4NE1/4	200			-105.990497	43.789758
P24084.0P	09/21/1958	Complete	House Well #3	DOM	044N	076W	21	NW1/4SE1/4	4	450	90	-105.99552	43.77258
P14909.0P	12/31/1940	Complete	Schlautmann #11	DOM; STK	045N	075W	34	SW1/4SE1/4	5	150	80	-105.8564	43.82433
P188784.0W	09/18/2008	Incomplete	Pumpkin Butte Ranch House	DOM; STK	043N	075W	04	NE1/4NW1/4	25			-105.87895	43.734989
P24085.0P	12/31/1940	Complete	Ellendale #4	DOM; STK	044N	076W	17	NE1/4SE1/4	3	406	22	-106.01063	43.78622
P28847.0W	07/22/1974	Complete	Heldt #4	DOM; STK	044N	076W	09	SE1/4SW1/4	12	600	80	-106.00058	43.79703
P101170.0W	12/21/1995	Complete	CR Wellfield #6A	IND	044N	076W	04	SW1/4NE1/4	1700	520	193	-105.9943	43.81776
P101171.0W	12/21/1995	Complete	CR Wellfield #6B	IND	044N	076W	04	NE1/4NW1/4	300	520	223	-105.99925	43.82053
P101172.0W	12/21/1995	Complete	CR Wellfield #6C	IND	044N	076W	04	SE1/4NW1/4	1100	540	213	-105.99934	43.81774
P101173.0W	12/21/1995	Complete	CR Wellfield #6D	IND	044N	076W	04	SW1/4NW1/4	150	600	284	-106.00439	43.81771
P101174.0W	12/21/1995	Complete	CR Wellfield #6E	IND	044N	076W	04	NW1/4SE1/4	1700	420	190	-105.9944	43.81442

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P101175.0W	12/21/1995	Complete	CR Wellfield #6F	IND	044N	076W	04	SE1/4NE1/4	200	500	204.8	-105.98925	43.81779
P101177.0W	12/21/1995	Complete	CR Wellfield #6H	IND	044N	076W	04	SE1/4NE1/4	400	540	170	-105.98925	43.81779
P104862.0W	01/08/1997	Complete	ENL CR Wellfield #5C	IND	044N	076W	17	SE1/4SE1/4	195	460	133	-106.01054	43.78261
P104863.0W	01/08/1997	Complete	ENL CR Wellfield #5D	IND	044N	076W	20	NE1/4NE1/4	405	480	135	-106.01053	43.77901
P104864.0W	01/08/1997	Complete	ENL CR Wellfield #5E	IND	044N	076W	16	SW1/4SW1/4	750	360	81.9	-106.00551	43.78265
P104865.0W	01/08/1997	Complete	ENL CR Wellfield #5C	IND	044N	076W	21	NW1/4NW1/4	855	561	222.2	-106.00549	43.77907
P104866.0W	01/08/1997	Complete	ENL CR Wellfield #5G	IND	044N	076W	16	NE1/4NW1/4	100	480	152	-106.00069	43.79349
P104867.0W	01/08/1997	Complete	ENL CR Wellfield #5H	IND	044N	076W	16	NW1/4SW1/4	175	440	107	-106.00559	43.78622
P104868.0W	01/08/1997	Complete	ENL CR Wellfield #5I	IND	044N	076W	16	NE1/4SW1/4	240	460	128.8	-106.00054	43.78641
P104869.0W	01/08/1997	Complete	ENL CR Wellfield #5J	IND	044N	076W	16	SE1/4NW1/4	175	480	144.1	-106.00061	43.78995
P104870.0W	01/08/1997	Complete	ENL CR Wellfield #5K	IND	044N	076W	16	NW1/4NW1/4	125	460	150.3	-106.00575	43.79338
P107850.0W	09/26/1997	Incomplete	CR Wellfield #7A	IND	044N	076W	03	NW1/4SW1/4	400			-105.98432	43.81446
P107851.0W	09/26/1997	Incomplete	CR Wellfield #7B	IND	044N	076W	03	SW1/4SW1/4	840			-105.98443	43.81104
P107852.0W	09/26/1997	Incomplete	CR Wellfield #7C	IND	044N	076W	04	NE1/4SE1/4	1200			-105.98936	43.81442
P107853.0W	09/26/1997	Incomplete	CR Wellfield #7D	IND	044N	076W	04	SE1/4SE1/4	2680			-105.98947	43.811
P107854.0W	09/26/1997	Incomplete	CR Wellfield #7E	IND	044N	076W	04	SW1/4SE1/4	280			-105.99451	43.81104
P107855.0W	09/26/1997	Incomplete	CR Wellfield #7F	IND	044N	076W	09	NE1/4NE1/4	1200			-105.98965	43.80755
P107856.0W	09/26/1997	Incomplete	CR Wellfield #7G	IND	044N	076W	09	SE1/4NE1/4	840			-105.98992	43.80409
P107857.0W	09/26/1997	Incomplete	CR Wellfield #7H	IND	044N	076W	09	NE1/4SE1/4	480			-105.99018	43.80063
P107858.0W	09/26/1997	Incomplete	CR Wellfield #7I	IND	044N	076W	10	SW1/4NW1/4	360			-105.98365	43.80309
P107859.0W	09/26/1997	Incomplete	CR Wellfield #7J	IND	044N	076W	10	NW1/4NW1/4	1200			-105.98462	43.8076
P131197.0W	12/01/2000	Complete	Pumpkin Buttes Shannon Unit Water Source Well	IND	044N	076W	36	SW1/4SW1/4	0	5155	557	-105.94587	43.73958
P52981.0W	07/09/1980	Complete	Hartzog Draw Unit Water Supply Well #1	IND	044N	075W	04	NW1/4SE1/4	146	7252	800	-105.87301	43.81544
P59134.0W	10/21/1981	Complete	Enl. of Hartzog Draw Unit Water Supply Well #1	IND	044N	075W	04	NW1/4SE1/4	146	7252	800	-105.87301	43.81544
P81754.0W	02/02/1990	Incomplete	Hartzog Draw Separation Facility	IND	044N	075W	04	SW1/4SE1/4	85	-1	-1.00	-105.87319	43.81165
P99005.0W	04/24/1995	Complete	CR Wellfield #5C	IND	044N	076W	17	SE1/4SE1/4	675	465	128	-106.01054	43.78261
P99006.0W	04/24/1995	Complete	CR Wellfield #5D	IND	044N	076W	20	NE1/4NE1/4	570	480	135	-106.01053	43.77901
P99007.0W	04/24/1995	Complete	CR Wellfield #5E	IND	044N	076W	16	SW1/4SW1/4	300	360	81.9	-106.00551	43.78265
P99008.0W	04/24/1995	Complete	CR Wellfield #5F	IND	044N	076W	21	NW1/4NW1/4	675	561	222.2	-106.00549	43.77907
P99009.0W	04/24/1995	Complete	CR Wellfield #5G	IND	044N	076W	16	NE1/4NW1/4	75	480	152	-106.00069	43.79349
P99010.0W	04/24/1995	Complete	CR Wellfield #5H	IND	044N	076W	16	NW1/4SW1/4	105	440	107.7	-106.00559	43.78622
P99011.0W	04/24/1995	Complete	CR Wellfield #5I	IND	044N	076W	16	NE1/4SW1/4	75	460	128.8	-106.00054	43.78641
P99012.0W	04/24/1995	Complete	CR Wellfield #5J	IND	044N	076W	16	SE1/4NW1/4	105	480	144.1	-106.00061	43.78995
P99013.0W	04/24/1995	Incomplete	CR Wellfield #5K	IND	044N	076W	16	NW1/4NW1/4	75	460	150.3	-106.00575	43.79338
P194854.0W	01/12/2011	Incomplete	CR MU7 SEC 3 NW-SW	IND; MIS	044N	076W	03	NW1/4SW1/4	60			-105.984564	43.814614
P194855.0W	01/12/2011	Incomplete	CR MU7 SEC 4 SE-SE	IND; MIS	044N	076W	04	SE1/4SE1/4	560			-105.989422	43.811178
P194856.0W	01/12/2011	Incomplete	CR MU7 SEC 4 NE-SE	IND; MIS	044N	076W	04	NE1/4SE1/4	500			-105.989511	43.814658
P194857.0W	01/12/2011	Incomplete	CR MU7 SEC 3 SW-SW	IND; MIS	044N	076W	03	SW1/4SW1/4	240			-105.984431	43.81095
P194858.0W	01/12/2011	Incomplete	CR MU7 SEC 9 NE-NE	IND; MIS	044N	076W	09	NE1/4NE1/4	200			-105.989497	43.808133
P194859.0W	01/12/2011	Incomplete	CR MU7 SEC 9 SE-NE	IND; MIS	044N	076W	09	SE1/4NE1/4	440			-105.990008	43.804058
P194860.0W	01/12/2011	Incomplete	CR MU7 SEC 9 NE-SE	IND; MIS	044N	076W	09	NE1/4SE1/4	220			-105.990161	43.801147

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P194861.0W	01/12/2011	Incomplete	CR MU7 SEC 10 SW-NW	IND; MIS	044N	076W	10	SW1/4NW1/4	140			-105.983706	43.802903
P194862.0W	01/12/2011	Incomplete	CR MU7 SEC 10 NW-NW	IND; MIS	044N	076W	10	NW1/4NW1/4	460			-105.984572	43.807808
P195797.0W	05/16/2011	Incomplete	URZHTWF-1 through URZHTWF-14	IND; MIS	044N	075W	31	SW1/4NE1/4	210			-105.915131	43.7464
P192394.0W	01/21/2010	Incomplete	PW1	MIS	044N	076W	24	NW1/4SW1/4	25			-105.945647	43.772925
P192753.0W	04/05/2010	Incomplete	7WW-1	MIS	044N	076W	04	SE1/4SE1/4	15			-105.989444	43.810564
P30147.0W	04/03/1975		BARN #30	MIS	044N	076W	21	NE1/4SE1/4	12	660	35	-105.99049	43.77292
P33463.0W	09/30/1975		HANK 1	MIS	044N	075W	31	NW1/4SE1/4	14	440	370	-105.91512	43.74313
P60219.0W	02/23/1982	Complete	Hartzog Draw Unit Potable Water Well #1	MIS	044N	075W	04	NW1/4SE1/4	20	921	450	-105.87301	43.81544
P67281.0W	05/14/1984	Incomplete	RM 04	MIS	044N	076W	04	SW1/4NE1/4	0	562	120	-105.9943	43.81776
P72816.0W	06/25/1986	Incomplete	WCOW 5	MIS	044N	076W	17	SE1/4SE1/4	20	645	155	-106.01054	43.78261
P100644.0W	10/16/1995	Complete	7MW1	MON	044N	076W	10	NW1/4NW1/4	0	700	304.2	-105.98462	43.8076
P100645.0W	10/16/1995	Complete	7MW2	MON	044N	076W	10	SW1/4NW1/4	0	710	310.3	-105.98365	43.80309
P100646.0W	10/16/1995	Complete	7MW3	MON	044N	076W	10	NW1/4NW1/4	0	665	263.8	-105.98462	43.8076
P100647.0W	10/16/1995	Complete	7MW4	MON	044N	076W	10	SW1/4NW1/4	0	660	266.1	-105.98365	43.80309
P100648.0W	10/16/1995	Complete	7MW5	MON	044N	076W	10	NW1/4NW1/4	0	650	244.5	-105.98462	43.8076
P100649.0W	10/16/1995	Complete	7MW6	MON	044N	076W	09	SW1/4NW1/4	0	675	274	-106.00508	43.80412
P100650.0W	10/16/1995	Complete	7MW7	MON	044N	076W	03	SW1/4SW1/4	0	660	286.8	-105.98443	43.81104
P100651.0W	10/16/1995	Complete	7MW8	MON	044N	076W	09	SE1/4NE1/4	0	650	241.5	-105.98992	43.80409
P100652.0W	10/16/1995	Complete	7MW9	MON	044N	076W	03	SW1/4SW1/4	0	670	272.4	-105.98443	43.81104
P100653.0W	10/16/1995	Complete	7MW10	MON	044N	076W	09	SE1/4NE1/4	0	640	224.5	-105.98992	43.80409
P100654.0W	10/16/1995	Complete	7MW11	MON	044N	076W	03	NW1/4SW1/4	0	650	234	-105.98432	43.81446
P100655.0W	10/16/1995	Complete	7MW12	MON	044N	076W	09	NE1/4NE1/4	0	650	248.8	-105.98965	43.80755
P100656.0W	10/16/1995	Complete	7MW13	MON	044N	076W	03	NW1/4SW1/4	0	600	202.8	-105.98432	43.81446
P100657.0W	10/16/1995	Complete	7MW14	MON	044N	076W	09	NE1/4NE1/4	0	640	236.4	-105.98965	43.80755
P100658.0W	10/16/1995	Complete	7MW15	MON	044N	076W	03	NW1/4SW1/4	0	640	182.8	-105.98432	43.81446
P100659.0W	10/16/1995	Complete	7MW16	MON	044N	076W	09	SE1/4NE1/4	0	720	308.4	-105.98992	43.80409
P100660.0W	10/16/1995	Complete	6MW17	MON	044N	076W	04	SE1/4SE1/4	0	540	196.5	-105.98947	43.811
P100661.0W	10/16/1995	Complete	7MW18	MON	044N	076W	09	SE1/4NE1/4	0	720	231.6	-105.98992	43.80409
P100662.0W	10/16/1995	Complete	6MW38	MON	044N	076W	04	NE1/4SE1/4	0	600	211.6	-105.98936	43.81442
P100663.0W	10/16/1995	Complete	6MW19	MON	044N	076W	04	SW1/4SE1/4	0	520	190	-105.99451	43.81104
P100664.0W	10/16/1995	Complete	7MW20	MON	044N	076W	09	NE1/4SE1/4	0	650	295	-105.99018	43.80063
P100665.0W	10/16/1995	Complete	6MW21	MON	044N	076W	04	SW1/4SE1/4	0	520	183.7	-105.99451	43.81104
P100666.0W	10/16/1995	Complete	7MW22	MON	044N	076W	09	NE1/4SE1/4	0	640	265.7	-105.99018	43.80063
P100667.0W	10/16/1995	Complete	6MW23	MON	044N	076W	04	SW1/4SE1/4	0	430	173.6	-105.99451	43.81104
P100668.0W	10/16/1995	Complete	7MW24	MON	044N	076W	09	NE1/4SE1/4	0	670	265.2	-105.99018	43.80063
P100669.0W	10/16/1995	Complete	6MW25	MON	044N	076W	04	SE1/4SW1/4	0	390	121.2	-105.99956	43.81109
P100670.0W	10/16/1995	Complete	7MW26	MON	044N	076W	09	SE1/4NE1/4	0	660	248.9	-105.98992	43.80409
P100671.0W	10/16/1995	Complete	6MW27	MON	044N	076W	04	NE1/4SW1/4	0	410	164.5	-105.99945	43.81443
P100672.0W	10/16/1995	Complete	7MW28	MON	044N	076W	09	SE1/4NE1/4	0	650	236	-105.98992	43.80409
P100673.0W	10/16/1995	Complete	6MW29	MON	044N	076W	04	NE1/4SW1/4	0	380	132.2	-105.99945	43.81443
P100674.0W	10/16/1995	Complete	7MW30	MON	044N	076W	09	NE1/4NE1/4	0	590	208	-105.98965	43.80755
P100675.0W	10/16/1995	Complete	6MW31	MON	044N	076W	04	NE1/4SW1/4	0	510	180.6	-105.99945	43.81443
P100676.0W	10/16/1995	Complete	7MW32	MON	044N	076W	09	NE1/4NE1/4	0	620	227.2	-105.98965	43.80755

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P100677.0W	10/16/1995	Complete	6MW34	MON	044N	076W	04	NE1/4SE1/4	0	540	201.3	-105.98936	43.81442
P100678.0W	10/16/1995	Complete	6MW35	MON	044N	076W	04	SE1/4NW1/4	0	530	221	-105.99934	43.81774
P100679.0W	10/16/1995	Complete	6MW36	MON	044N	076W	04	NW1/4SE1/4	0	510	159	-105.9944	43.81442
P100680.0W	10/16/1995	Complete	6MW37	MON	044N	076W	04	SW1/4NW1/4	0	580	250	-106.00439	43.81771
P100681.0W	10/16/1995	Complete	6MW39	MON	044N	076W	04	SW1/4NW1/4	0	590	262	-106.00439	43.81771
P100682.0W	10/16/1995	Complete	6MW40	MON	044N	076W	04	SE1/4NE1/4	0	560	206	-105.98925	43.81779
P100683.0W	10/16/1995	Complete	6MW41	MON	044N	076W	04	SW1/4NW1/4	0	590	262.5	-106.00439	43.81771
P100684.0W	10/16/1995	Complete	6MW42	MON	044N	076W	04	SE1/4NE1/4	0	560	203	-105.98925	43.81779
P100685.0W	10/16/1995	Complete	6MW43	MON	044N	076W	04	SW1/4NW1/4	0	610	283	-106.00439	43.81771
P100686.0W	10/16/1995	Complete	6MW44	MON	044N	076W	04	NW1/4NE1/4	0	570	223.9	-105.9942	43.82058
P100687.0W	10/16/1995	Complete	6MW45	MON	044N	076W	04	NW1/4NW1/4	0	680	242.3	-106.0043	43.82051
P100688.0W	10/16/1995	Complete	6MW46	MON	044N	076W	04	SW1/4NE1/4	0	560	203	-105.9943	43.81776
P100689.0W	10/16/1995	Complete	6MW47	MON	044N	076W	04	NW1/4NW1/4	0	680	345.4	-106.0043	43.82051
P100690.0W	10/16/1995	Complete	6MW48	MON	044N	076W	04	NW1/4NE1/4	0	540	202	-105.9942	43.82058
P100691.0W	10/16/1995	Complete	6MW49	MON	044N	076W	04	NW1/4NW1/4	0	610	272.3	-106.0043	43.82051
P100692.0W	10/16/1995	Complete	6MW50	MON	044N	076W	04	NW1/4NE1/4	0	630	236	-105.9942	43.82058
P100693.0W	10/16/1995	Complete	6MW52	MON	044N	076W	04	NE1/4NW1/4	0	650	257	-105.99925	43.82053
P100694.0W	10/16/1995	Complete	6MW53	MON	044N	076W	04	NE1/4NW1/4	0	640	243.2	-105.99925	43.82053
P100695.0W	10/16/1995	Complete	6MW54	MON	044N	076W	04	NW1/4NE1/4	0	640	243.3	-105.9942	43.82058
P100701.0W	10/16/1995	Complete	6DM1	MON	044N	076W	09	SW1/4NW1/4	0	645	278	-106.00508	43.80412
P100702.0W	10/16/1995	Complete	6DM2	MON	044N	076W	09	SE1/4NW1/4	0	660	268	-106.00003	43.80411
P100703.0W	10/16/1995	Complete	6DM3	MON	044N	076W	09	NE1/4NW1/4	0	610	235	-105.99975	43.80765
P100704.0W	10/16/1995	Complete	6DM4	MON	044N	076W	04	SE1/4NW1/4	0	620	237	-105.99934	43.81774
P100705.0W	10/16/1995	Complete	6DM5	MON	044N	076W	04	SE1/4SW1/4	0	600	210	-105.99956	43.81109
P100710.0W	10/16/1995	Complete	6DM10	MON	044N	076W	04	NW1/4SE1/4	0	550	175.5	-105.9944	43.81442
P100711.0W	10/16/1995	Complete	6SM1	MON	044N	076W	09	SW1/4NW1/4	0	340	170.4	-106.00508	43.80412
P100712.0W	10/16/1995	Complete	6SM2	MON	044N	076W	09	SW1/4NW1/4	0	300	147	-106.00508	43.80412
P100713.0W	10/16/1995	Complete	6SM3	MON	044N	076W	09	NE1/4NW1/4	0	245	132.3	-105.99975	43.80765
P100714.0W	10/16/1995	Complete	6SM4	MON	044N	076W	04	SE1/4NW1/4	0	220	131	-105.99934	43.81774
P100715.0W	10/16/1995	Complete	6SM5	MON	044N	076W	04	SE1/4NW1/4	0	280	101.3	-105.99934	43.81774
P100716.0W	10/16/1995	Complete	6SM6	MON	044N	076W	04	SE1/4NW1/4	0	300	88	-105.99934	43.81774
P100717.0W	10/16/1995	Complete	6SM7	MON	044N	076W	04	NW1/4SE1/4	0	335	127	-105.9944	43.81442
P100718.0W	10/16/1995	Complete	6SM8	MON	044N	076W	04	SW1/4NE1/4	0	250	81	-105.9943	43.81776
P100719.0W	10/16/1995	Complete	6SM9	MON	044N	076W	04	SW1/4NE1/4	0	230	84	-105.9943	43.81776
P100720.0W	10/16/1995	Complete	6SM10	MON	044N	076W	04	NW1/4SE1/4	0	300	78.2	-105.9944	43.81442
P100722.0W	10/16/1995	Complete	6MW51	MON	044N	076W	04	NE1/4NW1/4	0	600	253.5	-105.99925	43.82053
P100723.0W	10/16/1995	Complete	6MW33	MON	044N	076W	04	NW1/4SW1/4	0	520	198	-106.0045	43.81443
P104126.0W	10/15/1996	Complete	NBHW-1	MON	044N	076W	13	SE1/4SE1/4	0	720	378.5	-105.92829	43.78489
P104127.0W	10/15/1996	Complete	NBHW-2	MON	044N	076W	13	NW1/4SE1/4	0	760	422.8	-105.93351	43.78835
P104129.0W	10/15/1996	Complete	NBHW-4	MON	044N	076W	13	SW1/4SE1/4	0	760	526.6	-105.9357	43.78335
P104130.0W	10/15/1996	Complete	NBHW-5	MON	044N	076W	13	SW1/4SE1/4	0	635	417.9	-105.9357	43.78335
P104131.0W	10/15/1996	Complete	NBHW-6	MON	044N	076W	24	NE1/4NW1/4	0	600	373.4	-105.94077	43.77921
P104132.0W	10/15/1996	Complete	NBHW-7	MON	044N	076W	24	SE1/4NW1/4	0	610	357.3	-105.94077	43.77618
P104133.0W	10/15/1996	Complete	NBHW-8	MON	044N	076W	24	NE1/4SW1/4	0	640	343.6	-105.94078	43.77328

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P104134.0W	10/15/1996	Complete	NBHW-9	MON	044N	076W	24	NE1/4SW1/4	0	560	218.1	-105.94078	43.77328
P104135.0W	10/15/1996	Complete	NBHW-10	MON	044N	076W	24	SE1/4SW1/4	0	490	171.3	-105.94079	43.76892
P104136.0W	10/15/1996	Complete	NBHW-11	MON	044N	076W	24	NE1/4NW1/4	0	665	225.8	-105.94077	43.77921
P104137.0W	10/15/1996	Complete	NBHW-12	MON	044N	076W	24	SE1/4NW1/4	0	646	195.7	-105.94077	43.77618
P104138.0W	10/15/1996	Complete	NBHW-13	MON	044N	076W	24	SE1/4NW1/4	0	470	125.4	-105.94077	43.77618
P104139.0W	10/15/1996	Complete	NBHW-14	MON	044N	076W	24	SE1/4NW1/4	0	520	107.7	-105.94077	43.77618
P104140.0W	10/15/1996	Complete	NBHW-15	MON	044N	076W	24	NE1/4NW1/4	0	350	126.2	-105.94077	43.77921
P104141.0W	10/15/1996	Complete	NBHW-16	MON	044N	076W	24	SW1/4SW1/4	0	670	221.3	-105.94725	43.76765
P104142.0W	10/15/1996	Complete	NBHW-17	MON	044N	076W	24	NE1/4SW1/4	0	555	207.4	-105.94078	43.77328
P104143.0W	10/15/1996	Complete	NBHW-18	MON	044N	076W	24	NE1/4SW1/4	0	630	290.4	-105.94078	43.77328
P104144.0W	10/15/1996	Complete	NBHW-19	MON	044N	076W	24	SW1/4NW1/4	0	660	326.3	-105.94575	43.77624
P104145.0W	10/15/1996	Complete	NBHW-20	MON	044N	076W	24	NW1/4NW1/4	0	630	372	-105.94726	43.78106
P105120.0W	02/25/1997	Complete	6TW4	MON	044N	076W	04	NW1/4SE1/4	0	560	181.3	-105.9944	43.81442
P105121.0W	02/25/1997	Complete	6TW5	MON	044N	076W	04	SW1/4NE1/4	0	460	195.2	-105.9943	43.81776
P105122.0W	02/25/1997	Complete	6DT1	MON	044N	076W	04	SE1/4NW1/4	0	580	193.1	-105.99934	43.81774
P106349.0W	06/13/1997	Complete	7MW19	MON	044N	076W	04	NE1/4SE1/4	0	580	166.4	-105.98936	43.81442
P106350.0W	06/13/1997	Complete	7MW21	MON	044N	076W	09	NE1/4SE1/4	0	620	224.5	-105.99018	43.80063
P106351.0W	06/13/1997	Complete	7MW23	MON	044N	076W	09	NE1/4SE1/4	0	670	264.4	-105.99018	43.80063
P106352.0W	06/13/1997	Complete	7MW25	MON	044N	076W	09	NE1/4SE1/4	0	670	258	-105.99018	43.80063
P106353.0W	06/13/1997	Complete	7MW27	MON	044N	076W	09	SW1/4NE1/4	0	660	254	-105.99497	43.8041
P106354.0W	06/13/1997	Complete	7MW29	MON	044N	076W	09	SW1/4NE1/4	0	630	231.7	-105.99497	43.8041
P106355.0W	06/13/1997	Complete	7MW31	MON	044N	076W	09	NW1/4NE1/4	0	590	207.8	-105.9947	43.8076
P106356.0W	06/13/1997	Complete	7MW33	MON	044N	076W	09	NW1/4NE1/4	0	620	218.8	-105.9947	43.8076
P106357.0W	06/13/1997	Complete	7MW34	MON	044N	076W	09	NW1/4NE1/4	0	600	212.2	-105.9947	43.8076
P106358.0W	06/13/1997	Complete	7MW35	MON	044N	076W	09	NW1/4NE1/4	0	620	213.4	-105.9947	43.8076
P106359.0W	06/13/1997	Complete	7MW36	MON	044N	076W	04	SW1/4SE1/4	0	520	205.3	-105.99451	43.81104
P106360.0W	06/13/1997	Complete	7MW37	MON	044N	076W	04	SW1/4SE1/4	0	500	203.3	-105.99451	43.81104
P106361.0W	06/13/1997	Complete	7MW38	MON	044N	076W	04	SW1/4SE1/4	0	500	143.4	-105.99451	43.81104
P106362.0W	06/13/1997	Complete	7MW39	MON	044N	076W	04	SW1/4SE1/4	0	560	151.1	-105.99451	43.81104
P106363.0W	06/13/1997	Complete	7MW40	MON	044N	076W	04	NW1/4SE1/4	0	580	189.4	-105.9944	43.81442
P106364.0W	06/13/1997	Complete	7MW41	MON	044N	076W	04	NW1/4SE1/4	0	600	218.2	-105.9944	43.81442
P106369.0W	06/13/1997	Complete	7SM1	MON	044N	076W	04	NE1/4SE1/4	0	335	160	-105.98936	43.81442
P106370.0W	06/13/1997	Complete	7SM2	MON	044N	076W	03	SW1/4SW1/4	0	350	127.6	-105.98443	43.81104
P106371.0W	06/13/1997	Complete	7SM3	MON	044N	076W	10	NW1/4NW1/4	0	395	236.8	-105.98462	43.8076
P106372.0W	06/13/1997	Complete	7SM4	MON	044N	076W	04	NE1/4SE1/4	0	345	162.5	-105.98936	43.81442
P106373.0W	06/13/1997	Complete	7SM5	MON	044N	076W	10	NW1/4NW1/4	0	390	168.3	-105.98462	43.8076
P106374.0W	06/13/1997	Complete	7SM6	MON	044N	076W	04	SE1/4SE1/4	0	355	173.4	-105.98947	43.811
P106375.0W	06/13/1997	Complete	7SM7	MON	044N	076W	04	SE1/4SE1/4	0	335	176.8	-105.98947	43.811
P106376.0W	06/13/1997	Complete	7SM8	MON	044N	076W	09	SE1/4SE1/4	0	250	137.8	-105.99045	43.79716
P106377.0W	06/13/1997	Complete	7SM9	MON	044N	076W	04	SE1/4SE1/4	0	355	165.5	-105.98947	43.811
P106378.0W	06/13/1997	Complete	7SM10	MON	044N	076W	09	NE1/4SE1/4	0	360	208.6	-105.99018	43.80063
P106379.0W	06/13/1997	Complete	7SM11	MON	044N	076W	09	SE1/4NE1/4	0	250	137.1	-105.98992	43.80409
P106380.0W	06/13/1997	Complete	7SM12	MON	044N	076W	09	SE1/4NE1/4	0	395	224	-105.98992	43.80409
P106381.0W	06/13/1997	Complete	7SM13	MON	044N	076W	09	NE1/4SE1/4	0	370	168.3	-105.99018	43.80063

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P106382.0W	06/13/1997	Complete	7DM1	MON	044N	076W	03	NW1/4SW1/4	0	780	225	-105.98432	43.81446
P106383.0W	06/13/1997	Complete	7DM2	MON	044N	076W	03	SW1/4SW1/4	0	750	230	-105.98443	43.81104
P106384.0W	06/13/1997	Complete	7DM3A	MON	044N	076W	10	NW1/4NW1/4	0	780	204.2	-105.98462	43.8076
P106385.0W	06/13/1997	Complete	7DM4A	MON	044N	076W	04	NE1/4SE1/4	0	760	215.1	-105.98936	43.81442
P106391.0W	06/13/1997	Complete	7TW1	MON	044N	076W	04	SE1/4SE1/4	0	535	225.3	-105.98947	43.811
P106392.0W	06/13/1997	Complete	7TW2	MON	044N	076W	04	SE1/4SE1/4	0	530	223.6	-105.98947	43.811
P106393.0W	06/13/1997	Complete	7TW3	MON	044N	076W	04	SE1/4SE1/4	0	525	213	-105.98947	43.811
P106394.0W	06/13/1997	Complete	7TW4	MON	044N	076W	03	SW1/4SW1/4	0	525	231.8	-105.98443	43.81104
P106395.0W	06/13/1997	Complete	7TW5	MON	044N	076W	09	NE1/4NE1/4	0	460	233.4	-105.98965	43.80755
P106396.0W	06/13/1997	Complete	7TW6	MON	044N	076W	09	NE1/4NE1/4	0	520	224.3	-105.98965	43.80755
P108341.0W	12/19/1997	Complete	7MW42	MON	044N	076W	04	NE1/4SE1/4	0	620	219.5	-105.98936	43.81442
P108342.0W	12/19/1997	Complete	7MW43	MON	044N	076W	04	NE1/4SE1/4	0	600	211.2	-105.98936	43.81442
P108947.0W	02/18/1998	Complete	Shogrin Federal #2 (Pistol Point)	MON	045N	075W	31	NE1/4SW1/4	0	1730	453	-105.92178	43.82783
P164527.0W	01/04/2005	Complete	North MW-A	MON	044N	075W	15	NW1/4SW1/4	0	125	80	-105.86436	43.78714
P164529.0W	01/04/2005		Van Vorhes MW-A	MON	044N	075W	03	SW1/4SW1/4	0	109	85	-105.86235	43.81219
P183847.0W	11/21/2007	Incomplete	URZHF-8	MON	044N	075W	31	SW1/4NE1/4	0			-105.915081	43.746869
P190034.0W	03/09/2009	Complete	URZHF-1	MON	043N	075W	06	SW1/4NE1/4	0	400	328.5	-105.91415	43.733731
P190035.0W	03/09/2009	Complete	URZHC-2	MON	043N	075W	06	SW1/4NE1/4	0	450	337.85	-105.914	43.733667
P190036.0W	03/09/2009	Complete	URZHG-3	MON	043N	075W	06	SW1/4NE1/4	0	300	281	-105.91425	43.733633
P191314.0W	08/10/2009	Complete	URZHH-7	MON	043N	075W	06	NE1/4NW1/4	0	145	91.54	-105.920375	43.735289
P191315.0W	08/10/2009	Complete	URZHH-10	MON	044N	075W	31	SW1/4NE1/4	0	135	128.9	-105.916347	43.745464
P191316.0W	08/10/2009	Complete	URZHH-9	MON	043N	075W	06	SE1/4SE1/4	0	155	123.81	-105.912146	43.72381
P191327.0W	08/10/2009	Complete	URZHF-11	MON	044N	075W	31	NW1/4SE1/4	6	420	341	-105.916078	43.743181
P191328.0W	08/10/2009	Complete	URZHF-12	MON	044N	075W	31	NE1/4SE1/4	0	482	379.5	-105.912053	43.742294
P191329.0W	08/10/2009	Complete	URZHF-13	MON	044N	075W	31	NE1/4NW1/4	0	330	288.83	-105.917939	43.748775
P191330.0W	08/10/2009	Complete	URZHF-14	MON	044N	075W	31	NE1/4NW1/4	0	385	290.13	-105.918239	43.748828
P191331.0W	08/10/2009	Complete	URZHG-15	MON	044N	075W	31	NW1/4SE1/4	0	314	271.6	-105.914136	43.742844
P191332.0W	08/10/2009	Complete	URZHC-16	MON	044N	075W	31	NW1/4SE1/4	0	523	361.86	-105.914158	43.7427
P196630.0W	09/02/2011	Incomplete	NE/NE 24-44-76 (8 Wells) North Butte MINE UNIT 1	MON	044N	076W	24	NE1/4NE1/4	0			-105.930786	43.77935
P196631.0W	09/02/2011	Incomplete	SE/SE 13-44-76 (8 Wells) North Butte MINE UNIT 1	MON	044N	076W	13	SE1/4SE1/4	0			-105.928281	43.784392
P196632.0W	09/02/2011	Incomplete	SW/SW 18-44-75 (21-Wells) North Butte MINE UNIT 1	MON	044N	075W	18	SW1/4SW1/4	0			-105.925486	43.784408
P196633.0W	09/02/2011	Incomplete	SE/SW 18-44-75 (7-Wells) North Butte MINE UNIT 1	MON	044N	075W	18	SE1/4SW1/4	0			-105.920147	43.784308
P196634.0W	09/02/2011	Incomplete	NW/NE 18-44-75 (4-Wells) North Butte MINE UNIT 1	MON	044N	075W	19	NW1/4NE1/4	0			-105.915017	43.780881
P196635.0W	09/02/2011	Incomplete	NW/NE 19-44-75 (13 Wells) North Butte MINE UNIT 1	MON	044N	075W	19	NE1/4NW1/4	0			-105.917708	43.780919
P196636.0W	09/02/2011	Incomplete	NW/NW 19-44-75 (15 Wells) North Butte MINE UNIT 1	MON	044N	075W	19	NW1/4NW1/4	0			-105.925597	43.778344
P48981.0W	07/03/1979	Complete	WCPW 1	MON	044N	076W	17	SE1/4SE1/4	0	450	130	-106.01054	43.78261
P48982.0W	07/03/1979		WCOW 1	MON	044N	076W	17	SE1/4SE1/4	0	350	130	-106.01054	43.78261

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P48983.0W	07/03/1979		WCOW 2	MON	044N	076W	17	SE1/4SE1/4	0	502	130	-106.01054	43.78261
P48984.0W	07/03/1979		WCOW 3	MON	044N	076W	17	SE1/4SE1/4	0	450	130	-106.01054	43.78261
P48985.0W	07/03/1979		WCOW-4	MON	044N	076W	17	SE1/4SE1/4	0	290	125	-106.01054	43.78261
P48987.0W	07/03/1979		WCOW 6	MON	044N	076W	17	SE1/4SE1/4	0	450	130	-106.01054	43.78261
P48988.0W	07/03/1979	Complete	WCOW 7	MON	044N	076W	17	SE1/4SE1/4	0	450	130	-106.01054	43.78261
P48989.0W	07/03/1979		WCOW 8	MON	044N	076W	17	SE1/4SE1/4	0	450	130	-106.01054	43.78261
P50567.0W	10/29/1979	Complete	Brown Piezometer A	MON	044N	075W	20	NE1/4SW1/4	0	320	229	-105.89968	43.77262
P50568.0W	10/29/1979	Complete	Brown Piezometer B	MON	044N	075W	30	NW1/4NW1/4	0	300	143	-105.92561	43.76513
P50569.0W	10/29/1979	Complete	Brown Piezometer C	MON	044N	075W	30	NW1/4NE1/4	0	340	170	-105.91509	43.76523
P50570.0W	10/29/1979	Complete	Brown Piezometer D	MON	044N	075W	30	SE1/4NW1/4	0	305	164	-105.92027	43.76154
P50571.0W	10/29/1979	Complete	Brown Piezometer E	MON	044N	075W	30	SE1/4NW1/4	0	300	166	-105.92027	43.76154
P50572.0W	10/29/1979	Complete	Brown Piezometer F	MON	044N	075W	30	SW1/4NE1/4	0	160	69	-105.91507	43.76159
P50573.0W	10/29/1979	Complete	Brown Piezometer G	MON	044N	075W	29	SW1/4SW1/4	0	320	169	-105.9047	43.75437
P50574.0W	10/29/1979	Complete	Brown Piezometer H	MON	044N	076W	25	NW1/4SW1/4	0	200	90	-105.94578	43.7581
P50575.0W	10/29/1979	Complete	Brown Piezometer I (EYE)	MON	044N	075W	30	SW1/4NW1/4	0	80	49	-105.9256	43.76149
P50576.0W	10/29/1979	Complete	Brown Piezometer J	MON	044N	075W	29	NW1/4NW1/4	0	110	95	-105.90478	43.76531
P50577.0W	10/29/1980	Complete	Brown Piezometer K	MON	044N	075W	29	NE1/4NW1/4	0	124	120	-105.89968	43.76532
P50578.0W	10/29/1979	Complete	Brown Piezometer 1	MON	044N	075W	19	NE1/4SE1/4	0	640	290	-105.90991	43.77258
P50579.0W	10/29/1979	Complete	Brown Piezometer M	MON	044N	075W	19	NE1/4SE1/4	0	528	261	-105.90991	43.77258
P50580.0W	10/29/1979	Complete	Brown Piezometer N	MON	044N	075W	19	NE1/4SE1/4	0	405	183	-105.90991	43.77258
P50581.0W	10/29/1979	Complete	Brown Piezometer O (OH)	MON	044N	075W	20	SW1/4NW1/4	0	580	282	-105.90476	43.77627
P50582.0W	10/29/1979	Complete	Brown Piezometer P	MON	044N	075W	29	SE1/4NE1/4	0	595	361	-105.88954	43.76168
P50583.0W	10/29/1979	Complete	Brown Piezometer Q	MON	044N	075W	29	SW1/4SW1/4	0	600	305	-105.9047	43.75437
P50584.0W	10/29/1979	Complete	Brown Piezometer R	MON	044N	075W	19	NE1/4SE1/4	0	520	265	-105.90991	43.77258
P53741.0W	08/06/1980	Complete	North Butte MN 1	MON	044N	075W	18	SE1/4SW1/4	0	966	385	-105.92019	43.78487
P53748.0W	08/06/1980	Complete	North Butte P 2 M	MON	044N	076W	24	NE1/4NE1/4	0	800	145	-105.93083	43.77983
P53749.0W	08/06/1980	Complete	North Butte P 2 L	MON	044N	076W	24	NE1/4NE1/4	0	1000	378	-105.93083	43.77983
P53750.0W	08/06/1980	Complete	North Butte P 3	MON	044N	076W	13	SE1/4SE1/4	0	780	251	-105.92829	43.78489
P53752.0W	08/06/1980	Complete	North Butte R 5	MON	044N	076W	13	SE1/4SE1/4	0	760	133	-105.92829	43.78489
P53753.0W	08/06/1980	Complete	North Butte P 6	MON	044N	075W	18	SW1/4SW1/4	0	660	145	-105.92549	43.78488
P53754.0W	08/06/1980	Complete	North Butte P 7	MON	044N	076W	24	NE1/4NE1/4	0	660	539	-105.93083	43.77983
P53755.0W	08/06/1980	Complete	North Butte P 8	MON	044N	075W	19	NW1/4NW1/4	0	760	378	-105.92562	43.77881
P53756.0W	08/06/1980	Complete	North Butte P 9	MON	044N	075W	19	NE1/4NW1/4	0	640	197	-105.91772	43.78142
P53757.0W	08/06/1980	Complete	North Butte P 10	MON	044N	076W	13	NE1/4SE1/4	0	720	379	-105.93049	43.78833
P53758.0W	08/06/1980	Complete	North Butte P 11	MON	044N	076W	24	NW1/4NE1/4	0	820	384	-105.9358	43.77975
P53759.0W	08/06/1980	Complete	North Butte P 12	MON	044N	076W	13	SE1/4SE1/4	0	660	341	-105.92829	43.78489
P53760.0W	08/06/1980	Complete	North Butte P SS1 U	MON	044N	076W	25	NE1/4NW1/4	0	372	136	-105.94078	43.76529
P53761.0W	08/06/1980	Complete	North Butte SS1 P U	MON	044N	076W	25	NE1/4NW1/4	0	354	145	-105.94078	43.76529
P53762.0W	08/06/1980	Complete	North Butte SS1 M	MON	044N	076W	25	NE1/4NW1/4	0	454	139	-105.94078	43.76529
P53763.0W	08/06/1980	Complete	North Butte SS1 P M	MON	044N	076W	25	NE1/4NW1/4	0	446	146	-105.94078	43.76529
P53764.0W	08/06/1980	Complete	North Butte SS1 L	MON	044N	076W	25	NE1/4NW1/4	0	654	139	-105.94078	43.76529
P53766.0W	08/06/1980	Complete	North Butte SSW U	MON	044N	076W	26	SE1/4NE1/4	0	216	107	-105.95077	43.76177
P53767.0W	08/06/1980	Complete	North Butte SSW UM	MON	044N	076W	26	SW1/4NE1/4	0	346	104	-105.95574	43.76179
P53768.0W	08/06/1980	Complete	North Butte SSW LM	MON	044N	076W	26	SW1/4NE1/4	0	483	104	-105.95574	43.76179

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P53769.0W	08/06/1980	Complete	North Butte SSW L	MON	044N	076W	26	SW1/4NE1/4	0	605	216	-105.95574	43.76179
P53770.0W	08/06/1980	Complete	North Butte SSE U	MON	044N	075W	19	NW1/4NE1/4	0	291	184	-105.91508	43.7814
P53771.0W	08/06/1980	Complete	North Butte SSE M	MON	044N	075W	19	NW1/4NE1/4	0	556	272	-105.91508	43.7814
P53772.0W	08/06/1980	Complete	North Butte SSE L	MON	044N	075W	19	NW1/4NE1/4	0	680	343	-105.91508	43.7814
P53779.0W	08/25/1980	Complete	N Butte SS1 (F) U	MON	044N	076W	25	NE1/4NW1/4	0	185	114	-105.94078	43.76529
P53780.0W	08/25/1980	Complete	N Butte SS1 (F) P U	MON	044N	076W	25	NE1/4NW1/4	0	191	115	-105.94078	43.76529
P53781.0W	08/25/1980	Complete	N Butte SS2 U	MON	044N	076W	24	SW1/4NE1/4	0	377	227	-105.93611	43.77612
P53782.0W	08/25/1980	Complete	N Butte SS2 P U	MON	044N	076W	24	SW1/4NE1/4	0	378	221	-105.93611	43.77612
P53783.0W	08/25/1980	Complete	N Butte SS2 M	MON	044N	076W	24	SW1/4NE1/4	0	645	306	-105.93611	43.77612
P53785.0W	08/25/1980	Complete	N Butte SS2 L	MON	044N	076W	24	SW1/4NE1/4	0	780	366	-105.93611	43.77612
P53786.0W	08/25/1980	Complete	N Butte SS2 P L	MON	044N	076W	24	SW1/4NE1/4	0	800	379	-105.93611	43.77612
P53791.0W	08/25/1980	Complete	WC - MN 1	MON	044N	076W	35	SW1/4SE1/4	0	210	100	-105.95587	43.73956
P60386.0W	04/21/1982		WCOW 21	MON	044N	076W	20	NE1/4NE1/4	0	505	138	-106.01053	43.77901
P60387.0W	04/21/1982		WCOW 22	MON	044N	076W	20	NE1/4NE1/4	0	455	150.9	-106.01053	43.77901
P60388.0W	04/21/1982	Complete	WCOW 23	MON	044N	076W	20	NE1/4NE1/4	0	462	148.5	-106.01053	43.77901
P60389.0W	04/21/1982		WCOW 24	MON	044N	076W	20	NE1/4NE1/4	0	360	144.8	-106.01053	43.77901
P60390.0W	04/21/1982		WCOW 25	MON	044N	076W	20	NE1/4NE1/4	0	455	145.2	-106.01053	43.77901
P60391.0W	04/21/1982		WCOW 26	MON	044N	076W	20	NE1/4NE1/4	0	460	146.5	-106.01053	43.77901
P60392.0W	04/21/1982	Complete	WCOW 27S	MON	044N	076W	20	NE1/4NE1/4	0	275	110.4	-106.01053	43.77901
P60393.0W	04/21/1982	Complete	WCOW 28D	MON	044N	076W	20	NE1/4NE1/4	0	660	159.4	-106.01053	43.77901
P66878.0W	03/19/1984	Complete	TW 01	MON	044N	076W	20	NE1/4NE1/4	0	470	120	-106.01053	43.77901
P66879.0W	03/19/1984	Complete	TW 02	MON	044N	076W	20	NE1/4NE1/4	0	470	120	-106.01053	43.77901
P67277.0W	05/14/1984	Complete	RM 03S	MON	044N	076W	10	NW1/4NW1/4	0	260	120	-105.98462	43.8076
P67278.0W	05/14/1984	Complete	RM 03	MON	044N	076W	10	NW1/4NW1/4	0	550	120	-105.98462	43.8076
P67279.0W	05/14/1984	Complete	RM 04D	MON	044N	076W	04	SW1/4NE1/4	0	763	150	-105.9943	43.81776
P67280.0W	05/14/1984	Complete	RM 04S	MON	044N	076W	04	SW1/4NE1/4	0	445	120	-105.9943	43.81776
P67282.0W	05/14/1984	Complete	RM 03D	MON	044N	076W	10	NW1/4NW1/4	0	700	150	-105.98462	43.8076
P74578.0W	05/11/1987	Complete	N Butte SS2 P M 1285P	MON	044N	076W	24	SW1/4NE1/4	0	640	143	-105.93611	43.77612
P76612.0W	04/15/1988	Complete	SS2BC 1	MON	044N	076W	24	SW1/4NE1/4	0	640	298	-105.93611	43.77612
P76613.0W	04/15/1988	Complete	SS2BC 2	MON	044N	076W	24	SW1/4NE1/4	0	650	298	-105.93611	43.77612
P76614.0W	04/15/1988	Complete	SS2FBC AQ	MON	044N	076W	24	SW1/4NE1/4	0	459	225	-105.93611	43.77612
P76615.0W	04/15/1988	Complete	SSEA 1	MON	044N	075W	19	NW1/4NE1/4	0	668	330	-105.91508	43.7814
P76616.0W	04/15/1988	Complete	SSEA 2	MON	044N	075W	19	NW1/4NE1/4	0	670	330	-105.91508	43.7814
P76617.0W	04/15/1988	Complete	SSEA 3	MON	044N	075W	19	NW1/4NE1/4	0	666	330	-105.91508	43.7814
P76618.0W	04/15/1988	Complete	SSE1 1	MON	044N	075W	19	NW1/4NE1/4	0	740	322	-105.91508	43.7814
P76619.0W	04/15/1988	Complete	SSEA1 AQ	MON	044N	075W	19	NW1/4NE1/4	0	677.5	330	-105.91508	43.7814
P87751.0W	04/24/1992	Complete	M1	MON	044N	075W	19	NW1/4NE1/4	0	560	230	-105.91508	43.7814
P87752.0W	04/24/1992	Complete	M2	MON	044N	075W	19	NW1/4NE1/4	0	560	260	-105.91508	43.7814
P87753.0W	04/24/1992	Complete	M3	MON	044N	075W	19	SE1/4SW1/4	0	580	275	-105.92029	43.76883
P87754.0W	04/24/1992	Complete	M4	MON	044N	075W	18	SE1/4SW1/4	0	580	273	-105.92019	43.78487
P87755.0W	04/24/1992	Complete	M5	MON	044N	075W	18	SE1/4SW1/4	0	640	292	-105.92019	43.78487
P87756.0W	04/24/1992	Complete	M6	MON	044N	075W	18	SE1/4SW1/4	0	640	300	-105.92019	43.78487
P87757.0W	04/24/1992	Complete	M7	MON	044N	075W	18	SW1/4SW1/4	0	640	314	-105.92549	43.78488
P87758.0W	04/24/1992	Complete	M8	MON	044N	075W	18	SW1/4SW1/4	0	640	325	-105.92549	43.78488

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P87759.0W	04/24/1992	Complete	M9	MON	044N	075W	18	SW1/4SW1/4	0	640	323	-105.92549	43.78488
P87760.0W	04/24/1992	Complete	M10	MON	044N	075W	18	SW1/4SW1/4	0	640	323	-105.92549	43.78488
P87765.0W	04/24/1992	Complete	M15	MON	044N	075W	19	NW1/4NW1/4	0	640	279	-105.92562	43.77881
P87766.0W	04/24/1992	Complete	M16	MON	044N	075W	19	NE1/4NW1/4	0	640	261	-105.91772	43.78142
P87768.0W	04/24/1992	Complete	M18	MON	044N	075W	19	NE1/4NW1/4	0	560	249	-105.91772	43.78142
P87769.0W	04/24/1992	Complete	M19	MON	044N	075W	19	SW1/4NE1/4	0	560	239	-105.91509	43.77611
P87770.0W	04/24/1992	Complete	M20	MON	044N	075W	19	NW1/4NE1/4	0	560	262	-105.91508	43.7814
P87774.0W	04/24/1992	Complete	UM1	MON	044N	075W	19	NW1/4NE1/4	0	320	150	-105.91508	43.7814
P87775.0W	04/24/1992	Complete	UM2	MON	044N	075W	19	NE1/4NW1/4	0	420	197	-105.91772	43.78142
P87776.0W	04/24/1992	Complete	UM3	MON	044N	075W	18	SE1/4SW1/4	0	340	193	-105.92019	43.78487
P87777.0W	04/24/1992	Complete	UM4	MON	044N	075W	18	SW1/4SW1/4	0	360	139	-105.92549	43.78488
P87778.0W	04/24/1992	Complete	UM5	MON	044N	075W	18	SW1/4SW1/4	0	360	190	-105.92549	43.78488
P87779.0W	04/24/1992	Complete	UM6	MON	044N	075W	18	SW1/4SW1/4	0	350	190	-105.92549	43.78488
P87780.0W	04/24/1992	Complete	UM7	MON	044N	075W	19	NW1/4NW1/4	0	320	192	-105.92562	43.77881
P87781.0W	04/24/1992	Complete	UM8	MON	044N	075W	19	NW1/4NW1/4	0	340	132	-105.92562	43.77881
P87782.0W	04/24/1992	Complete	UM9	MON	044N	075W	19	NE1/4NW1/4	0	340	161	-105.91772	43.78142
P87784.0W	04/24/1992	Complete	UUM1	MON	044N	075W	19	NW1/4NE1/4	0	180	92	-105.91508	43.7814
P87785.0W	04/24/1992	Complete	UUM2	MON	044N	075W	18	SW1/4SW1/4	0	220	119	-105.92549	43.78488
P95863.0W	06/23/1994	Complete	5 MW40	MON	044N	076W	17	SE1/4SE1/4	0	520	97.6	-106.01054	43.78261
P95864.0W	06/23/1994	Complete	5 MW42	MON	044N	076W	17	SE1/4SE1/4	0	500	76.2	-106.01054	43.78261
P95865.0W	06/23/1994	Complete	5 MW44	MON	044N	076W	17	SE1/4SE1/4	0	540	97.6	-106.01054	43.78261
P95866.0W	06/23/1994	Complete	5 MW46	MON	044N	076W	17	SE1/4SE1/4	0	520	117.4	-106.01054	43.78261
P96159.0W	07/14/1994	Complete	5 MW1	MON	044N	076W	16	SE1/4NW1/4	0	599	159	-106.00061	43.78995
P96160.0W	07/14/1994	Complete	5 MW2	MON	044N	076W	16	NW1/4SW1/4	0	462	111.4	-106.00559	43.78622
P96161.0W	07/14/1994	Complete	5 MW3	MON	044N	076W	16	SE1/4NW1/4	0	643	183	-106.00061	43.78995
P96162.0W	07/14/1994	Complete	5 MW4	MON	044N	076W	16	SW1/4NW1/4	0	500	119.4	-106.00567	43.7898
P96163.0W	07/14/1994	Complete	5 MW5	MON	044N	076W	16	NE1/4NW1/4	0	678	202	-106.00069	43.79349
P96164.0W	07/14/1994	Complete	5 MW6	MON	044N	076W	16	SE1/4NW1/4	0	580	126.3	-106.00061	43.78995
P96165.0W	07/14/1994	Complete	5 MW7	MON	044N	076W	16	NE1/4NW1/4	0	625	155	-106.00069	43.79349
P96166.0W	07/14/1994	Complete	5 MW8	MON	044N	076W	16	SE1/4NW1/4	0	560	128.6	-106.00061	43.78995
P96168.0W	07/14/1994	Complete	5 MW10	MON	044N	076W	16	SE1/4NW1/4	0	574	134	-106.00061	43.78995
P96170.0W	07/14/1994	Complete	5 MW12	MON	044N	076W	16	SW1/4NW1/4	0	540	118	-106.00567	43.7898
P96172.0W	07/14/1994	Complete	5 MW14	MON	044N	076W	16	NW1/4NW1/4	0	574	125	-106.00575	43.79338
P96174.0W	07/14/1994	Complete	5 MW16	MON	044N	076W	16	NW1/4NW1/4	0	593	144	-106.00575	43.79338
P96176.0W	07/14/1994	Complete	5 MW18	MON	044N	076W	16	NW1/4NW1/4	0	575	137	-106.00575	43.79338
P96178.0W	07/14/1994	Complete	5 MW20	MON	044N	076W	16	NE1/4NW1/4	0	588	132	-106.00069	43.79349
P96193.0W	07/14/1994	Complete	5 MW41A	MON	044N	076W	20	NE1/4NE1/4	0	600	198.8	-106.01053	43.77901
P96194.0W	07/14/1994	Complete	5 MW43	MON	044N	076W	20	NE1/4NE1/4	0	620	227.9	-106.01053	43.77901
P96195.0W	07/14/1994	Complete	5 MW45	MON	044N	076W	20	NE1/4NE1/4	0	630	192.4	-106.01053	43.77901
P96196.0W	07/14/1994	Complete	5 MW47B	MON	044N	076W	21	NW1/4NW1/4	0	600	207.8	-106.00549	43.77907
P96197.0W	07/14/1994	Complete	5 MW49	MON	044N	076W	21	NW1/4NW1/4	0	560	171	-106.00549	43.77907
P96198.0W	07/14/1994	Complete	5 MW50	MON	044N	076W	16	SW1/4SW1/4	0	480	81.9	-106.00551	43.78265
P96199.0W	07/14/1994	Complete	5 MW51	MON	044N	076W	21	NW1/4NW1/4	0	560	173.4	-106.00549	43.77907
P96200.0W	07/14/1994	Complete	5 MW52	MON	044N	076W	16	SW1/4SW1/4	0	433	59.4	-106.00551	43.78265

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P96201.0W	07/14/1994	Complete	5 MW53	MON	044N	076W	21	NE1/4NW1/4	0	560	164.5	-106.00046	43.77933
P96202.0W	07/14/1994	Complete	5 MW54	MON	044N	076W	16	SW1/4SW1/4	0	435	57.8	-106.00551	43.78265
P96203.0W	07/14/1994	Complete	5 MW55	MON	044N	076W	21	NE1/4NW1/4	0	500	139.4	-106.00046	43.77933
P96204.0W	07/14/1994	Complete	5 MW56	MON	044N	076W	16	SW1/4SW1/4	0	460	77.6	-106.00551	43.78265
P96205.0W	07/14/1994	Complete	5 MW57	MON	044N	076W	21	NE1/4NW1/4	0	470	104.6	-106.00046	43.77933
P96206.0W	07/14/1994	Complete	5 MW58	MON	044N	076W	16	NW1/4SW1/4	0	480	110.1	-106.00559	43.78622
P96207.0W	07/14/1994	Complete	5 MW59	MON	044N	076W	16	SE1/4SW1/4	0	460	93.2	-106.00047	43.78287
P96208.0W	07/14/1994	Complete	5 MW60	MON	044N	076W	16	NW1/4SW1/4	0	500	108.9	-106.00559	43.78622
P96209.0W	07/14/1994	Complete	5 MW61	MON	044N	076W	16	SE1/4SW1/4	0	440	69.7	-106.00047	43.78287
P96210.0W	07/14/1994	Complete	5 MW62	MON	044N	076W	16	NW1/4SW1/4	0	480	106.8	-106.00559	43.78622
P96211.0W	07/14/1994	Complete	5 MW63	MON	044N	076W	16	NE1/4SW1/4	0	500	113.8	-106.00054	43.78641
P96212.0W	07/14/1994	Complete	5 MW64	MON	044N	076W	16	NW1/4SW1/4	0	480	111.7	-106.00559	43.78622
P96213.0W	07/14/1994	Complete	5 MW65	MON	044N	076W	16	NE1/4SW1/4	0	500	110	-106.00054	43.78641
P96214.0W	07/14/1994	Complete	5 MW66	MON	044N	076W	16	NW1/4SW1/4	0	480	113.9	-106.00559	43.78622
P96215.0W	07/14/1994	Complete	5 MW67	MON	044N	076W	16	NE1/4SW1/4	0	520	121.1	-106.00054	43.78641
P96216.0W	07/14/1994	Complete	5 MW68	MON	044N	076W	16	NW1/4SW1/4	0	480	103.3	-106.00559	43.78622
P96217.0W	07/14/1994	Complete	5 MW69	MON	044N	076W	16	NE1/4SW1/4	0	560	140.6	-106.00054	43.78641
P96220.0W	07/14/1994	Complete	5 SM2	MON	044N	076W	21	NW1/4NW1/4	0	340	166.9	-106.00549	43.77907
P96221.0W	07/14/1994	Complete	5 SM3	MON	044N	076W	16	SW1/4SW1/4	0	270	106.7	-106.00551	43.78265
P96223.0W	07/14/1994	Complete	5 SM5	MON	044N	076W	16	NW1/4SW1/4	0	210	61.6	-106.00559	43.78622
P96224.0W	07/14/1994	Complete	5 SM6	MON	044N	076W	16	NE1/4SW1/4	0	230	83.3	-106.00054	43.78641
P96225.0W	07/14/1994	Complete	5 SM7	MON	044N	076W	16	NW1/4NW1/4	0	245	99	-106.00575	43.79338
P96230.0W	07/14/1994	Complete	5 DM2	MON	044N	076W	21	NW1/4NW1/4	0	760	209.9	-106.00549	43.77907
P96231.0W	07/14/1994	Complete	5 DM3	MON	044N	076W	16	SW1/4SW1/4	0	670	171.5	-106.00551	43.78265
P96232.0W	07/14/1994	Complete	5 DM4	MON	044N	076W	17	SE1/4SE1/4	0	720	147.9	-106.01054	43.78261
P96233.0W	07/14/1994	Complete	5 DM5	MON	044N	076W	16	NW1/4SW1/4	0	640	127.5	-106.00559	43.78622
P96235.0W	07/14/1994	Complete	5 DM7	MON	044N	076W	16	NE1/4NW1/4	0	680	159	-106.00069	43.79349
P96236.0W	07/14/1994	Complete	5 DM8T	MON	044N	076W	16	NW1/4SW1/4	0	525	105	-106.00559	43.78622
P98521.0W	03/21/1995	Complete	NPPW-1	MON	044N	076W	04	NW1/4SE1/4	0	510	182.82	-105.9944	43.81442
P98522.0W	03/21/1995	Complete	NPOW-1	MON	044N	076W	04	NW1/4SE1/4	0	510	208.58	-105.9944	43.81442
P98523.0W	03/21/1995	Complete	NPOW-2	MON	044N	076W	04	NW1/4SE1/4	0	510	177.99	-105.9944	43.81442
P98524.0W	03/21/1995	Complete	NPOW-3	MON	044N	076W	04	NW1/4SE1/4	0	540	184.25	-105.9944	43.81442
P99267.0W	05/24/1995	Complete	5DM9T	MON	044N	076W	16	NE1/4SW1/4	0	560	119	-106.00054	43.78641
P99268.0W	05/24/1995	Complete	5TW1	MON	044N	076W	16	NE1/4NW1/4	0	620	153	-106.00069	43.79349
P99325.0W	06/01/1995	Complete	NPHW-1	MON	044N	076W	04	SW1/4NE1/4	0	520	194	-105.9943	43.81776
P99326.0W	06/01/1995	Complete	NPHW-2	MON	044N	076W	04	SE1/4NW1/4	0	540	205	-105.99934	43.81774
P99327.0W	06/01/1995	Complete	NPHW-3	MON	044N	076W	04	SW1/4NE1/4	0	540	181.7	-105.9943	43.81776
P99328.0W	06/01/1995	Complete	NPHW-4	MON	044N	076W	04	SW1/4SW1/4	0	540	195	-106.0046	43.81113
P99329.0W	06/01/1995	Complete	NPHW-5	MON	044N	076W	04	SE1/4NW1/4	0	560	226.5	-105.99934	43.81774
P99330.0W	06/01/1995	Complete	NPHW-6	MON	044N	076W	04	SE1/4SW1/4	0	440	129	-105.99956	43.81109
P99331.0W	06/01/1995	Complete	NPHW-7	MON	044N	076W	04	NW1/4SW1/4	0	420	132.5	-106.0045	43.81443
P99332.0W	06/01/1995	Complete	NPHW-8	MON	044N	076W	09	NE1/4NE1/4	0	660	206.5	-105.98965	43.80755
P99333.0W	06/01/1995	Complete	NPHW-9	MON	044N	076W	04	SE1/4SE1/4	0	620	188.9	-105.98947	43.811
P99334.0W	06/01/1995	Complete	NPHW-10	MON	044N	076W	04	SE1/4NE1/4	0	460	219.9	-105.98925	43.81779

Table 3.4-10 North Butte Groundwater Rights

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P99335.0W	06/01/1995	Complete	NPHW-11	MON	044N	076W	04	NE1/4SE1/4	0	560	196	-105.98936	43.81442
P99336.0W	06/01/1995	Complete	NPHW-12	MON	044N	076W	09	NE1/4SE1/4	0	640	200	-105.99018	43.80063
P99337.0W	06/01/1995	Complete	NPHW-13	MON	044N	076W	10	NW1/4NW1/4	0	580	248	-105.98462	43.8076
P99338.0W	06/01/1995	Complete	NPHW-14	MON	044N	076W	03	SW1/4SW1/4	0	620	223.8	-105.98443	43.81104
P99339.0W	06/01/1995	Complete	NPHW-15	MON	044N	076W	04	NW1/4SE1/4	0	420	157	-105.9944	43.81442
P99340.0W	06/01/1995	Complete	NPHW-16	MON	044N	076W	04	SE1/4SE1/4	0	620	197	-105.98947	43.811
P103967.0W	09/19/1996	Complete	Paden #1	STK	043N	075W	05	SW1/4SW1/4	10	650	290	-105.90531	43.72448
P114048.0W	02/18/1999	Complete	Dobie Hill Well #1	STK	044N	075W	29	SW1/4SE1/4	25	640	295	-105.89465	43.75437
P116152.0W	05/28/1999	Complete	North Dry Willow #1	STK	043N	075W	06	NE1/4SE1/4	25	1132	200	-105.91027	43.72824
P11892.0P	12/15/1962	Complete	East Pfister #1	STK	044N	075W	21	NE1/4SE1/4	2	335	110	-105.86844	43.77264
P11893.0P	12/11/1962	Complete	North Pfister #2	STK	044N	075W	08	SW1/4NE1/4	1.5	250	80	-105.89436	43.80517
P119027.0W	09/20/1999	Complete	Old Maid #1	STK	043N	076W	02	SE1/4SE1/4	25	300	202	-105.95083	43.72468
P12283.0P	12/31/1960	Complete	Connie #2	STK	043N	075W	05	NW1/4SE1/4	5	350	-1.00	-105.89486	43.72803
P13299.0P	08/15/1968	Complete	1-8-44-75 Jordan	STK	044N	075W	08	SE1/4NW1/4	5	-1	0	-105.89936	43.80506
P14910.0P	12/31/1946	Complete	Schlautmann #12	STK	044N	075W	10	NE1/4NW1/4	5	165	140	-105.85782	43.8075
P14912.0P	12/31/1940	Complete	Schlautmann #14	STK	044N	075W	04	SE1/4SW1/4	10	170	120	-105.87859	43.81224
P15068.0P	12/31/1955	Complete	Brown #1	STK	044N	076W	13	NW1/4NW1/4	5	5	-4.00	-105.94476	43.79441
P15069.0P	12/31/1960	Complete	Brown #2	STK	044N	076W	14	NE1/4SE1/4	8	3	-4.00	-105.94728	43.78897
P15106.0W	08/29/1972	Complete	West Old Maid #1	STK	043N	076W	03	SW1/4NE1/4	4	275	125	-105.97585	43.73205
P24083.0P	09/21/1936	Complete	Dry Pasture #2	STK	044N	076W	34	NE1/4NE1/4	4	160	60	-105.97085	43.75069
P24095.0P	12/21/1953	Complete	Calving Shed #18	STK	044N	076W	27	NW1/4NW1/4	4	140	40	-105.98561	43.76596
P24098.0P	03/31/1961	Complete	Rector Well #22	STK	044N	075W	05	SW1/4SW1/4	4	40	31	-105.9041	43.81175
P24101.0P	12/31/1966	Complete	Beecher NW Well #25	STK	044N	076W	28	SW1/4SW1/4	4	340	240	-106.00593	43.75387
P24868.0P	12/21/1954	Complete	Butte Pasture Well #9 (deepened)	STK	044N	076W	21	NW1/4SE1/4	4	160	30	-105.99552	43.77258
P24869.0P	12/31/1940	Complete	School Section #10	STK	045N	076W	36	NE1/4NE1/4	4	22	8	-105.93159	43.83503
P29162.0W	02/10/1975	Complete	Well West of Widow Women #1	STK	043N	076W	03	NE1/4SW1/4	5	720	310	-105.98086	43.72834
P35814.0W	12/23/1976	Complete	Savageton Equity State #1	STK	044N	075W	16	NE1/4SE1/4	25	760	70	-105.86807	43.78716
P36013.0W	01/17/1977	Complete	Brown #5	STK	044N	075W	30	SW1/4NE1/4	45	540	90	-105.91507	43.76159
P37540.0W	02/16/1977	Complete	Pumpkin Pump #33	STK	045N	075W	32	SE1/4NW1/4	25	1170	280	-105.90215	43.83176
P39112.0W	07/21/1977	Complete	#39 Heldt Draw Unit	STK	044N	076W	03	SW1/4NE1/4	6	1010	290	-105.97418	43.81791
P43598.0W	05/04/1978	Complete	Del Gulch #35	STK	044N	076W	28	NW1/4NW1/4	15	464	180	-106.0057	43.76473
P48652.0W	06/21/1979	Complete	Cities Service Brown (WS)	STK	044N	075W	31	NW1/4NW1/4	25	702	280	-105.92558	43.75056
P63592.0W	04/06/1983	Complete	DW2L	STK	045N	075W	33	SE1/4SE1/4	15	740	442	-105.87141	43.82428
P63593.0W	04/06/1983	Complete	DW2M	STK	045N	075W	33	SE1/4SE1/4	10	494	399	-105.87141	43.82428
P63594.0W	04/06/1983	Complete	DW2U	STK	045N	075W	33	SE1/4SE1/4	6	384	335	-105.87141	43.82428
P63604.0W	04/06/1983	Complete	Red Barrell #1	STK	044N	076W	25	SW1/4NW1/4	10	525	125	-105.94578	43.76173
P67378.0W	05/23/1984	Complete	Rector #1	STK	044N	075W	06	NE1/4SE1/4	12	363	160	-105.90894	43.81498
P89253.0W	08/11/1992	Complete	CCI #2	STK	044N	075W	17	NW1/4SE1/4	8	440	214.6	-105.89463	43.78723
P181234.0W	04/25/2007		URZHG-4	TST	044N	075W	31	NW1/4NE1/4	0			-105.914217	43.749483
P181235.0W	04/25/2007		URZHF-5	TST	044N	075W	31	NW1/4NE1/4	0			-105.914283	43.749483
P181236.0W	04/25/2007		URZHB-6	TST	044N	075W	31	NW1/4NE1/4	0			-105.9143	43.749617
Water rights information collected from Wyoming State Engineer e-permit database													

Table 3.4-11 Gas Hills Surface Water Quality

		Major Ions (mg/l) DISSOLVED												Non-Metals (mg/L)							Trace Metals (mg/l) DISSOLVED																			Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED							Radiometrics (pCi/L) SUSPENDED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Ammonia	Nitrite + Nitrate as N	Fluoride	Silica	Conductivity (umho/cm)	pH (std units)	Total Dissolved Solids @ 180°C	Total Susp. Solids 105°C	Alkalinity as CACO3	Hardness	Turbidity (NTU)	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Lead 210	Uranium (mg/L)	Radium 226	Radium 228	Thorium 230	Polonium 210	Gross Alpha	Gross Beta	Lead 210	Uranium (mg/L)	Radium 226	Radium 228	Thorium 230	Polonium 210
Sample Name	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NH3	NO2+NO3	F	SiO2	Cond.	pH	TDS	TSS	ALK	HARD	Turb.	Al	As	Ba	Be	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	210Pb	Nat U	226Ra	228Ra	230Th	210Po	-	-	210Pb	Nat U	226Ra	230Th	210Po
BUSS PIT	11/13/1996	615	135	40	35	<0.10	37	2094	11.1	<0.05	<0.10	0.9	5.7	2830	7.61	2980		31			<0.10	0	<0.10		<0.10	1.00	<0.05	1.42	<0.01	1.00	<0.05	<0.001	<0.10	<0.05	0.01	<0.10	0.01				0.113	1.80											
BUSS PIT	3/18/1997	160	20	9	10	<0.10	22	488	2.2	0.1	0.21	0.4	4.4	973	7.46	712		18			<0.10	<0.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.19	<0.001	<0.10	<0.05	0.00	<0.10	<0.01				0.041	0.20											
BUSS PIT	5/5/1997	497	101	37	32	<0.10	22	1678	<1	<0.05	<0.10	0.8	5.5	2260	7.28	2540		18			<0.10	<0.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	1.24	<0.001	<0.10	0.12	0.02	<0.10	0.03				0.107	3.20											
BUSS PIT	8/25/1997	572	110	41	36	<0.10	19	1870	10.9	0.1	<0.10	1.1	4.8	3000	7.19	3080		15			<0.10	<0.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	1.50	<0.001	<0.10	0.11	0.02	<0.10	0.02				0.087	3.70											
BUSS PIT	10/30/1997	618	112	41	36	<0.10	19	2010	10.2	0.0	<0.10	1.1	5.1	2920	7.14	3070		15			<0.10	<0.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	1.98	<0.001	<0.10	0.13	0.01	<0.10	0.03				0.092	5.70											
BUSS PIT	6/23/1998	553	130	44	34	<0.10	6	2100	14.8	0.1	<0.10	1.0	6.1	2700	6.20	2980		5			0	0	<0.10		<0.10	0.01	<0.05	<0.05	<0.01	<0.05	<0.05	2.02	<0.001	<0.10	<0.05	0.02	<0.10	0.07				0.069	2.30											
BUSS PIT	7/11/1998	570	130	44	37	1.0	10	2060	11.2	0.1	<0.10	1.0	6.1	3000	5.54	3070		8			0	<0.001	<0.10		<0.10	0.01	<0.05	<0.05	<0.01	<0.05	<0.05	2.32	<0.001	<0.10	0.17	0.01	<0.10	0.07				0.055	0.80											
BUSS PIT	8/4/1999	573	153	43	39	1.0	1	2040	14	<0.05	<0.10	1.1	6.9	3100	4.7	3080		1.0			1.85	<0.001	<0.10		<0.10		<0.05	<0.01	0.80	<0.05	2.64	<0.001	<0.10	0.19	0.012	<0.10	0.09				0.102	2.40											
BUSS PIT	9/5/2006	575	221	60	52	<1	<1	2470	15	0.40	<0.10	1.4	20.0	3970	3.8	3830		<1	2340		11.00	0.001	<0.10		<0.10	<0.01	<0.05	0.04	1.30	<0.05	7.76	<0.001	<0.10	0.55	0.017	<0.10	0.25				0.282	1.90											
BUSS PIT	8/30/2011	495	215	69	63	<5	<5	2360	15.0	<0.1	<0.1	1.8	23.0	3700	4.0	3930	<5			0.3	15.1	0.000	<0.1	0.05	<0.1	0.00	<0.01	0.04	0.42	<0.01	8.59	<0.001	<0.01	0.59	0.02	<0.1	0.27	0.47	8.04	1.30	0.22	1.60	1.30	0.200	<1	194	160	<1	<0.0003	<0.2	<0.2	<1		
BUSS PIT	10/6/2011	558	232	69	59	<5	<5	2670	17	<0.05	<0.1	1.5	5.0	3730	4.1	3910					17.70	0.001	<0.1		0	<0.005	<0.05	<0.05	<0.04	0.60	0.00	9.94	<0.001	<0.1	0.67	0.017	<0.1	0.82	0.72	10.20		0.225	1.60	1.50			339	182						
Cameron Spring	8/6/1988													386	8.0	296		180							<0.1	0.02	<0.05	<0.01		<0.05	<0.05	<0.01		<0.1		<0.001				0.016	0.20											
Cameron Spring	4/27/1989													390	8.2	242		167							<0.1	<0.01	<0.05			<0.05	<0.05	<0.01		<0.1		<0.001				0.015	0.20											
Cameron Spring	9/23/1996	8	<1.0	78	7	<0.10	250	17	2.8	<0.05	0.20	0.4	57.0	391	7.64	266		205			<0.10	0	<0.10		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.028	<0.2											
Cameron Spring	11/13/1996	8	<1.0	79	7	2.9	212	19	3.7	<0.05	0.20	0.3	58.4	376	8.38	252		178			<0.10	0	<0.10		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.018	0.70											
Cameron Spring	3/18/1997	13	1	66	8	<0.10	209	11	3.1	0.1	<0.10	0.3	23.9	366	8.19	255		171			0	0	<0.10		<0.10	<0.01	<0.05	<0.01	<0.01	0.26	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.007	0.20											
Cameron Spring	4/25/1997	16	1	83	9	4.1	243	15	2.2	0.2	<0.10	0.4	36.6	415	8.48	314		205			<0.10	0	<0.10		<0.10	<0.01	<0.05	<0.01	<0.01	0.60	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.012	0.60											
Cameron Spring	8/26/1997	20	2	109	11	6.4	312	17	4.5	0.1	<0.10	0.5	27.9	467	8.56	412		265			<0.10	0	0		0.2	<0.01	<0.05	<0.01	1.24	<0.05	0.03	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.006	<0.2											
Cameron Spring	10/31/1997	18	2	131	12	8.9	369	21	5.0	0.2	<0.10	0.5	8.8	643	8.63	431		315			0	0	0		0.2	<0.01	<0.05	<0.01	0.32	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.009	<0.2											
Cameron Spring	6/22/1999	13	2	97	8	29.5	228	36	1.0	0.2	<0.10	0.5	23.2	449	9.36	354		228			0	0	<0.10		0.1	<0.01	<0.05	<0.01	0.17	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	0.02				0.016	<0.2											
Cameron Spring	7/11/1998	8	1	121	7	71.9	207	19	2.7	0.1	<0.10	0.6	33.3	586	9.79	412		271			1	0	<0.10		0.1	<0.01	<0.05	<0.01	0.62	<0.05	0.09	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.012	0.80											
Cameron Spring	7/30/1999	17	4	168	13	44.6	415	29	3.0	0.9	<0.10	1.0		854	9.28	648					13	0			29				0.48		2.04		<0.10		<0.001		<0.01				0.009	<0.2	<0.1										
Cameron Spring	10/18/2006	9	<0.5	80	7	<1	210	19	2	0.05	0.10	0.4	59.5	328	8.2	298		172.0			<0.10	0.023	<0.10		<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.01	<0.001	<0.01	<0.05	<0.001	<0.10	<0.01	0.55	0.02		0.014	14.50	<1			43	18						
Cameron Spring	8/30/2011	8	<1	85	9	<5	216	15	4	<0.1	<0.1	0.2	61.0	403	8.4	310	<5			0.2	<0.1	0.022	<0.1	<0.001	<0.1	<0.001	<0.01	<0.01	<0.05	<0.01	<0.01	<0.001	<0.01	<0.05	0.001	<0.1	<0.01	<0.05	<0.01	3.20	0.017	<0.2	<1	<0.2	<1	14	10	<1	<0.0003	<0.2	<0.2	<1		
Cameron Spring	10/6/2011	9	<1	80	7	<5	209	17	3	<0.05	0.20	0.5	66.3	379	8.1	258					<0.1	0.022	<0.1		0	<0.005	<0.05	<0.01	<0.01	<0.03	<0.001	0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	0.04	<0.01		0.017	0.32	0.00			21	12						
Cameron Spring (dup)	10/6/2011	9	2	79	8	<5	218	19	3.00	<0.1	0.20	0.5	67.2	382	8.29	257					<0.1	0.02	<0.1		<0.1	<0.005	<0.05	<0.01	<0.01	<0.03	<0.001	0.01	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	<0.03	<0.01		0.019	0.30	0.40			25	13						
Cameron Pond-SD-2	8/30/2011	4	<1	16	16	178.0	114	12	2	<0.1	<0.1	0.4	55.0	349	10.2	560	<5			7.4	0.10	0.028	<0.1	<0.001	0.2	<0.001	<0.01	<0.01	<0.1	0.10	<0.01	0.01	<0.001	<0.01	<0.05	0.00	<0.1	<0.01	0.28	0.02	1.30	0.0057	<0.2	<1	<0.2	<1	7	14	<1	<0.0003	<0.2	<0.2	<1		
VECA PIT	9/20/1996	279	35	11	19	<0.10	56	793	2.6	<0.05	<0.10	0.5	3.0	1100	7.66	1190		46			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	0.00	<0.10	<0.01				0.219	2.10											
VECA PIT	11/12/1996	275	35	13	20	<0.10	56	808	2.4	<0.05	<0.10	0.5	3.3	1250	7.99	1150		46			<0.10	0	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.193	1.80											
VECA PIT	3/18/1997	172	19	7	14	<0.10	56	466	1.6	0.1	0.12	0.4	5.6	989	7.84	745		46			0	0	<0.10		<0.10	<0.01	<0.05	<0.01	0.09	<0.05	0.05	<0.001	<0.10	<0.05	0.02	<0.10	<0.01				0.176	1.70											
VECA PIT	4/25/1997	242	28	10	18	<0.10	60	659	1.8	0.8	<0.10	0.4	4.0	1152	7.93	983		49			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.01	0.11	<0.05	0.04	<0.001	<0.10	<0.05	0.00	<0.10	<0.01				0.221	2.20											
VECA PIT	10/29/1997	243	29	11	21	<0.10	73	693	2.8	<0.05	<0.10	0.6	1.4	1320	7.86	1110		60			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.192	2.60											
VECA PIT	6/22/1998	135	14	6	12	<0.10	63	344	1.0	<0.05	<0.10	0.3	2.9	751	7.93	614		32			<0.10	0	<0.10		<0.10	0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.01	<0.001	<0.10	<0.05	0.00	<0.10	<0.01				0.100	1.00											
VECA PIT	7/11/1998	155	16	6	12	1.0	58	379	1.6	0.1	<0.10	0.3	1.7	846	7.90	673		48			<0.10	0	<0.10		<0.10	0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.10	<0.05	0.00	<0.10	<0.01				0.117	2.00											
VECA PIT	8/5/1999	147	17	9	15	<0.50	54	387	4.0	0.1	<0.10	0.4		819	7.88	594						0							<0.05		<0.01		<0.10		0.01				0.126	3.00	1.00										
VECA PIT	10/17/2006	130	17	8	23	2.0	45	350	4.0	0.1	<0.1	0.5	1.6	697	8.83	506		39			<0.10	0	<0.10		<0.10	<0.01	<0.05	<0.01	0.08	<0.05	0.03	<0.001	<0.10	<0.05	0.01	<0.10	<0.01	0.14	0.03		0.137	0.70	3.70			56	146						
VECA PIT	10/6/2011	113	21	21	15	<5	62	371	9.0	<0.05	<0.1	0.5	2.0	828	8	578					<0.1	0	<0.1		<0.1	<0.005	<0.05	<0.01	<0.01	<0.03	<0.001	<0.01	<0.001	<0.1	<0.05	0.00	<0.1	<0.01	0.11	0.01		0.132	2.80	0.50			201	74						
PC PIT	9/20/1996	534	101	91	33	<0.10	51	1980	30.0	<0.05	<0.10	0.5	<1.0	2710	7.65	2920		41			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	0.01	<0.10	<0.01				0.493	0.90											
PC PIT	11/12/1996	530	97	95	34	<0.10	53	1910	26.7	<0.05	<0.10	0.5	<1.0	2530	7.82	2850		44			<0.10	0	<0.10		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	0.03	<0.001	0	<0.05	0.01	<0.10	<0.01				0.470	1.10											
PC PIT	3/18/1997	252	42	41	16	<0.10	32	919	14.0	<0.05	<0.10	0.3	1.5	1650	7.62	1280		26			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	0	<0.05	0.00	<0.10	<0.01				0.209	1.70											
PC PIT	4/29/1997	552	99	96	36	<0.10	65	1844	28.1	<0.05	<0.10	0.5	1.3	2784	7.86	2814		53			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	0	<0.05	0.00	<0.10	<0.01				0.522	1.30											
PC PIT	8/25/1997	510	92	95	35	<0.10	44	1800	31.7	0.1	<0.10	0.6	<1.0	3000	7.71	2950		36			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	0	<0.05	0.01	<0.10	<0.01				0.434	2.10											
PC PIT	11/5/1997	582	104	100	36	<0.10	50	1900	34.0	0.2	<0.10	0.6	<1.0	3060	7.64	2940		41			<0.10	<.001	<0.10		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.01	<0.001	0	<0.05	0.00	<0.10	<0.01				0.500	1.20											
PC PIT	6/22/1998	459	93	94	33	<0.10	56	1750	27.2	0.1	0.12	0.6	2.0	2680	7.92	2850		46			<0.10	0	<0.10		<0.10	0.01	<0.05	<0.05	<0.01	<0.05	<0.05	0.01	<0.001	0	<0.05	0.01	<0.10	<0.01				0.475	1.10											
PC PIT	7/11/1998	465	115	97	34	1.0	59	1750	28.0	0.1	<0.10	0.6	1.0	2950	7.61	2880		49			0	0	0		0	<0.01	0.05	0.05	0.01	<0.05	0.05	<0.02	0	0.3	0.05	0.01	<0.10	0.01				0.561	1.20											
PC PIT	8/10/1999	529	118	99	38	<1.00	57	1770	38.0	0.1	<0.10	0.6		3030	7.82	2900						0							<0.05		<0.01				0.00				0.508	0.60	1.50										
PC PIT	10/5/2011	554	126	131	46	<5	72	2180	35.0	<0.05	<0.1	1.0	<0.2	3260	8.13	3180					<0.1	0	<0.1		<0.1	<0.005	<0.05	<0.01	0.28	<0.001	0.11	<0.001	0.30	<0.05	0.00	<0.1	0.43	0.38	0.12		0.346	2.50	0.40			439	190						
WCC-1	9/19/1996	50	3	26	7	2.5	201	24	2.6	<0.05	<0.10	0.3	53.3	367	8.34	261		168			<0.10	0	0		<0.10	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.017	<0.2											
WCC-1	11/19/1996	52	4	26	7	<0.10	203	22	4.4	<0.05	<0.10	0.3	51.0	354	8.28	270		166			0	0	0		<0.10	<0.01	<0.05	<0.01	0.07	<0.05	0.04	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.011	17.10											
WCC-1	4/25/1997	52	4	24	8	2.3	200	20	2.1	0.1	<0.10	0.3	53.5	352	8.31	240		167			0	0	0		<0.10	<0.01	<0.05	<0.01	0.20	<0.05	0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.015	0.80											
WCC-1	10/28/2011	57	4	27	7	<0.10	244	19	3.7	<0.05	<0.10	0.4	51.4	419	8.21	292		200			<0.10	0	0		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.015	<0.2											
WCC-1	6/19/1905	63	4	28	7	<0.10	254	22	3.4	<0.05	<0.10	0.3	52.5	346	8.25	304		208			<0.10	0	0		<0.10	0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	0.02				0.014	0.70											
WCC-1	6/22/1998	60	4	29	8	2.8	249	19	1.6	<0.05	<0.10	0.4	54.8	424	8.31	298		208			<0.10	0	0		<0.10	0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.017	<0.2											
WCC-1	7/11/1998	65	5	30	9	3.4	248	21	3.0	<0.05	<0.10	0.4		446	8.38	284						0							0.03		<0.01				<0.001				0.021	0.90											
WCC-1	10/1/2006	75	5	34	8	4.0	290	21	2.0	0.1	<0.1	0.3	49.8	455	8.37	294		243			<0.10	0	0		<0.10	<0.01	<0.05	<0.05	0.02	<0.05	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01	0.17	0.03		0.014	0.40	<1			9	41						
WCC-1	8/30/2011	60	3	29	9	6.0	240	15	4	<0.1	<0.1	0.2	59.0	439	8.5	270	12.0			5.3	<0.1	0.014	0.10	<0.001	<0.1	<0.001	<0.01	<0.01	<0.05	<0.01	0.01	<0.001	<0.01	<0.05	0.000	<0.1	<0.01	0.37	0.09	2.00	0.0151	<0.2	<1	<0.2	<1	10	9	<1	<0.0003	<0.2	<0.2	<1		
WCC-1	10/6/2011	62	4	28	8	<5	245	19	3.0	<0.1	<0.1	0.4	59.7	435	8.36	278					<0.1	0	0		<0.1	<0.005	<0.05	<0.01	<0.01	<0.03	<0.001	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	2.24	0.22		0.014	0.37	0.40			11	11						
WCC-2	9/19/1996	64	5	25	13	<0.10	240	33	8.1	0.3	<0.10	0.4	44.1	455	7.99	325		197			<0.10	0	0		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.015	<0.2											
WCC-2	11/13/1996	81	7	30	10	<0.10	288	37	6.9	<0.05	<0.10	0.4	57.0	503	8.19	337		236			<0.10	0	0		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.025	0.40											
WCC-2	3/18/1997	27	2	10	7	2.4	118	10	2.0	0.1	<0.10	0.2	23.9	203	8.55	158		100			0	0	<0.10		<0.10	<0.01	<0.05	<0.01	0.27	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.011	<0.2											
WCC-2	5/5/1997	53	4	20	9	3.7	191	23	<1	<0.05	<0.10	0.3	47.0	357	8.54	249		162			0	0	0		<0.10	<0.01	<0.05	<0.01	0.29	<0.05	<0.01	<0.001	<0.10	<0.05	0.00	<0.10	<0.01				0.021	0.90											
WCC-2	8/25/1997	62	5	25	13	2.9	227	30	4.7	<0.05	<0.10	0.4	45.7	434	8.36	308		191			0	0	0		<0.10	<0.01	<0.05	<0.01	0.19	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.020	0.80											
WCC-2	10/30/1997	59	5	25	9	2.7	237	24	3.5	<0.05	<0.10	0.3	46.8	442	8.31	285		198			<0.10	0	0		<0.10	<0.01	<0.05	<0.01	0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.021	1.80											
WCC-2	6/22/1998	38	8	28	10	4.0	112	102	3.9	<0.05	<0.10	0.4	11.7	236	8.80	267		97			<0.10	0	<0.10		<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.029	0.70											
WCC-2	7/11/1998	28	4	27	9	2.9	143	24	3.9	<0.05	<0.10	0.4	22.7	242	8.56	192		121			<0.10	0	<0.10		<0.10	0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01				0.017	<0.2											
WCC-2	8/4/1999	81	10	41	24	<1	334	27	16.0	0.2	<0.10	0.5		619	7.95	421					24	0			0.58				0.58		0.22		<0.10		0.00				0.031	1.10	1.00										
WCC-2	10/17/2006	65	7	26	10	<1	242	29	5.0	0.1	<0.1	0.3	50.9	407	8.24	268		198			<0.10	0	0		<0.10	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01	0.03	<0.01		0.016	1.90	1.60			10	15						
WCC-2	8/30/2011	55	5	28	16	5.0	236	20	12	<0.1	<0.1	0.3	41.0	453	8.5	300	<5			12.0	<0.1	0.014	0.20	<0.001	<0.1	<0.001	<0.01	<0.01

Table 3.4-11 Gas Hills Surface Water Quality

		Major Ions (mg/l) DISSOLVED												Non-Metals (mg/L)							Trace Metals (mg/l) DISSOLVED																			Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED								Radiometrics (pCi/L) SUSPENDED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Ammonia	Nitrite + Nitrate as N	Fluoride	Silica	Conductivity (umho/cm)	pH (std units)	Total Dissolved Solids @ 180°C	Total Susp. Solids 105°C	Alkalinity as CACO3	Hardness	Turbidity (NTU)	Aluminum	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Lead 210	Uranium (mg/L)	Radium 226	Radium 228	Thorium 230	Polonium 210	Gross Alpha	Gross Beta	Lead 210	Uranium (mg/L)	Radium 226	Thorium 230	Polonium 210
Sample Name	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NH3	NO2+NO3	F	SiO2	Cond.	pH	TDS	TSS	ALK	HARD	Turb.	Al	As	Ba	Be	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	210Pb	NatU	226Ra	228Ra	230Th	210Po	-	-	210Pb	NatU	226Ra	230Th	210Po
SM-6	5/20/1987	8	1	3	7	0.0	17	27	0.30	<0.05	0.01	<0.1		109	7	360					<0.1	0.01	<0.1		<0.1	<0.01	<0.05	<0.01	0.28	<0.05	0.09	<0.001	<0.1	<0.05	0.00	<0.1	0.05				0.030	1.90										
SM-6	6/17/1987	115	14	4	10	0.0	2	346	0.60	0.67	0.12	0.2		700	5	520					0.05	<0.001	0.20		<0.1	<0.01	<0.05	<0.01	0.08	<0.05	1.60	<0.001	<0.1	0.12	0.00	<0.1	0.13				0.060	18.00										
SM-6	8/24/1987	498	97	8	18	0.0	0	1844	7.80	3.20	0.06	<0.1		2413	3	2694					37.00	<0.001	<0.1		<0.1	0.01	<0.05	0.10	3.50	<0.05	11.00	<0.001	<0.1	1.30	<0.001	<0.1	1.00				3.200	15.00										
SM-6	5/13/1989													66	6	38																								0.006	4.30										
SM-7	7/24/1984	22	3	38	3	0.0	122	37	8.00	0.10	<0.01	0.4		307	8	171					0.12	0.02	<0.02		<0.1	<0.005	<0.01	<0.01	0.18	<0.05	<0.01	<0.001	<0.05	<0.01	0.01	<0.05	0.01				0.150	5.40										
SM-7	6/27/1985	145	17	73	10	0.0	93	490	5.00	<0.05	0.41	0.4		354	8	786					0.08	0.01	<0.02		<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.05	<0.001	<0.05	0.02	0.00	<0.05	0.03				0.220	1.30										
SM-7	6/17/1987	13	3	37	6	0.0	110	38	0.40	0.51	0.42	0.6		250	8	174					5.30	0.01	0.30		<0.1	<0.01	<0.05	<0.01	3.55	<0.05	0.06	<0.001	<0.1	<0.05	0.00	<0.1	0.04				0.020	1.70										
SM-7	5/13/1989													138	7	92																								0.000	0.30										
SM-7	4/27/1990													184	8	155																								0.010	2.00										
SM-7	5/17/1991							*						206	7	112										*														0.010	0.60			*							
SM-7	6/7/1991													218	7	349																								0.010	372.00										
Spring #1	8/17/2011																																							2.30	0.170	0.80		<0.2	<1			<1	0.0055	0.60	<0.2	<1
Windmill Impoundment	8/17/2011																																							2.20	0.111	0.30		230	<1			<1	<0.0003	1.40	<0.2	<1
White Rock Springs	8/18/2011																																							2.40	0.043	0.30		<0.2	<1			<1	<0.0003	<0.2	<0.2	<1
Impoundment #6	8/18/2011																																							<1	0.012	<0.2		<0.2	<1			1.40	0.0006	0.20	<0.2	<1
North Stock Pond	8/30/2011	18	2	282	15	53.0	540	95	10	1.60	<0.1	1.0	62.0	1240	9.0	1570	350.0			31.3	1.90	0.161	0.2	<0.001	0.1	0.00	<0.01	0.02	1.15	0.01	0.10	<0.001	0.02	<0.05	0.002	<0.1	<0.01	60.00	3.09	3.20	0.090	1.90	<1	<0.2	1.20	68	50	3.30	0.0031	1.80	1.50	<1

Table 3.4-12 Gas Hills Remote Satellite Sediment Quality Data

Sample Name	Sample Date	Radiometrics Totals (pCi/g-dry)			
		Uranium (NatU)	Lead-210 (210Pb)	Radium-226 (226Ra)	Thorium-230 (230Th)
AS-1	9/1/2011	2.40	4.8	3.0	3.8
AS-2	9/1/2011	2.30	3.7	1.8	1.5
AS-3	9/1/2011	6.50	9.6	11.6	6.9
AS-4	8/31/2011	15.40	10.4	8.6	9.7
SD-1	9/1/2011	2.50	1.4	1.1	0.7
SD-3	9/1/2011	1.90	1.5	1.3	0.7
SD-4	8/31/2011	1.20	3.7	2.3	1.1
SD-5	8/31/2011	0.90	1.9	1.4	1.2
SD-6	8/31/2011	0.70	<1.0	1.0	0.5
SD-7	8/31/2011	1.00	1.2	1.1	0.7
SD-8	8/31/2011	0.60	<1.0	1.0	0.5
SD-9	8/31/2011	0.90	1.4	1.5	0.7
SD-10	8/31/2011	1.20	2.0	1.1	0.5
SD-11	8/31/2011	4.90	4.3	4.0	3.2
SD-12	8/31/2011	1.30	1.2	1.8	1.1
SD-13	8/31/2011	1.10	1.8	1.1	0.6
WCC #1	8/30/2011	2.20	2.8	1.9	1.2
WCC #2	8/30/2011	1.70	2.2	1.3	0.7
WCC #3	8/31/2011	7.30	9.2	10.2	6.4
Buss Pit	8/30/2011	4.00	3.1	1.9	2.2
Cameron Pond – SD-2	8/30/2011	1.90	2.4	1.1	0.8
Cameron Spring	8/30/2011	1.70	1.2	0.9	0.5
North Stock Pond	8/30/2011	2.60	3.3	2.1	1.4
EFD	9/1/2011	1.80	3.5	2.5	1.2
WFC	9/1/2011	3.40	4.7	3.0	1.9
N =		25	23	25	25
Average		2.9	3.5	2.7	2.0
Standard Deviation		3.1	2.7	2.9	2.3
Minimum		0.6	1.2	0.9	0.5
Maximum		15.4	10.4	11.6	9.7

Table 3.4-13 Surface Water Rights within 2 km of Gas Hills

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Source Name	Longitude	Latitude
P10039.0R	03/31/1994	Unadjudicated	Buss I Reservoir	STO	033N	089W	27	SW1/4NW1/4	Buss Draw (A closed Basin)	-107.496324	42.80459
P10040.0R	03/31/1994	Unadjudicated	Buss III Reservoir	STO	033N	089W	27	NE1/4SW1/4	Buss Draw (A closed Basin)	-107.49386	42.80126
P10041.0R	03/31/1994	Unadjudicated	Cap Pit Reservoir	STO	033N	089W	27	NW1/4NE1/4	CH. 4 Draw	-107.492552	42.80933
P10075.0S	01/27/1987		Rim Stock Reservoir	STO	033N	089W	35	NE1/4SW1/4	Middle Sage Hen Creek	-107.474328	42.78687
P13001.0R	08/27/2007	Complete	B-SPOILS RESERVOIR	IND	033N	089W	15	NE1/4SE1/4	Canyon Creek	-107.48435	42.83004
P6542.0R	10/23/1959	Unadjudicated	Wencor Spoil Pile Reservoir	MIS; STO; WIL	033N	090W	27	SW1/4SE1/4	Lamac Draw	-107.606869	42.798
P9573.0R	01/23/1990	Unadjudicated	Veca Pond Reservoir	STO; WIL	033N	089W	22	NW1/4SW1/4	Veca Draw	-107.498363	42.81597
P9722.0R	12/24/1991	Fully Adjudicated	Area 4 Reclamation Reservoir	STO; WIL	033N	090W	36		Fraser Draw (Drainage of)	-107.569661	42.78895
Water rights information collected from Wyoming State Engineer e-permit database.											

Table 3.4-14 Gas Hills Remote Satellite Historical Groundwater Quality Data

		Major Ions (mg/l) DISSOLVED											Non-Metals (mg/L)				Trace Metals (mg/l) DISSOLVED															Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Ammonium	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	Alkalinity as CaCO3	pH (std units)	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Uranium (mg/L)	Radium 222	Radium 226	Radium 228	Gross Alpha	Gross Beta
Sample ID	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	NH3	F	SiO2	TDS	Cond.	ALK	pH	Al	As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	NatU	222Ra	226Ra	228Ra	-	-
GW5A	10/1/1981	168	47	37	27	0.0	132	590	21	0.85	<0.05	1.9		945	1450	108	6.70	<0.05	0.01	<0.02	0.15	0.01	<0.01	<0.01	0.14	<0.05	0.25	<0.001	<0.05	<0.01	<0.02	<0.05	0.34			0.009		3.9			
GW5A	1/1/1982	185	47	36	28	0.0	127	570	8	2.30	0.09	1.5		936	1450	104	8.00	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	0.11	<0.05	0.27	<0.001	<0.05	0.03	<0.02	<0.05	0.01			0.008		8.1			
GW5A	4/1/1982	195	49	42	27	0.0	117	620	9	0.73	0.16	1.4		1000	900	96	7.10	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.37	<0.001	<0.05	0.03	<0.02	<0.05	0.02			0.010		4.4			
GW5A	7/1/1982	220	45	42	30	0.0	107	793	12	2.10	0.17	1.3		1196	1000	88	7.00	<0.05	0.02	<0.02	<0.1	0.01	<0.01	<0.01	0.33	<0.05	0.37	<0.001	<0.05	0.03	<0.02	<0.05	0.01			0.010		4.2			
GW5A	10/1/1982	268	74	44	32	0.0	107	870	12	0.29	0.43	1.6		1352	1000	88	6.30	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.37	<0.001	<0.05	<0.01	<0.02	<0.05	0.02			0.010		4.5			
GW5A	1/1/1983														1010		6.30																							
GW5A	4/1/1983	225	58	45	34	0.0	112	845	13	1.40	1.90			1275	1050	92	6.80		0.01			#			0.09								0.03			0.009			*		
GW5A	7/1/1983														1100		6.50																							
GW5A	10/1/1983	240	63	47	31	0.0	107	802	12	3.20	0.07			1248	1260	88	6.80		0.01						0.09					0.03						0.007		4.4			
GW5A	5/1/1984	209	58	46	33	0.0	112	800	12	0.49	1.20			1214	1350	92	7.20		0.01						<0.05					0.03						<.005		3.3			
GW5A	10/1/1984	207	22	49	32	0.0	117	710	12	0.81	0.99			1090	1220	96	7.90		0.02						<0.05					<0.005						0.009		3.9			
GW5A	4/1/1985														440		6.50																							
GW5A	10/6/1993	199	40	37	20	0.0	167	605	7	<0.01		2.6				137	6.56	<0.01	0.01	<0.1	<0.1	<0.1	<0.05	<0.1	0.86					0.07	<0.001	<0.1				0.000		1.2			
GW5A	9/23/1996	190	47	32	21	<0.05	190	616	8	<0.10	<0.025	2.1	35.3	1040	1270	156	6.33	<0.10	0.02	<0.10	<0.10	<0.10	<0.05	<0.01	<0.025	<0.05	0.09	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.001		1.0			
GW5A	3/7/1997	199	48	32	21	0.1	140	621	8	0.01	<0.025	2.0	34.4	1060	1310	115	7.79	<0.10	0.02		<0.10	<0.10	<0.05	<0.01	<0.025	<0.05	0.14	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			<0.00015		2.6			
GW5A	4/28/1997	187	45	34	22	0.1	139	592	8	<0.1	<0.025	1.9	34.4	1046	1305	114	7.70	<0.10	0.03	<0.10	<0.10	<0.10	<0.05	<0.01	<0.025	<0.05	0.11	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			<0.00015		1.1			
GW5A	8/20/1997	194	46	32	21	0.1	140	591	7	<0.10	0.12	2.1	34.9	1040	1290	115	7.76	<0.10	0.03	<0.10	<0.10	<0.10	<0.05	<0.01	<0.025	<0.05	0.15	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.001		0.9			
GW5A	10/29/1997	184	43	32	20	<0.05	142	590	7	<0.10	<0.025	2.1	35.4	1060	1290	116	7.80	<0.10	0.02	<0.10	<0.10	<0.005	<0.05	<0.01	<0.025	<0.05	0.17	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.001		1.0			
GW5A	8/17/1998	192	46	35	21	1.0	146	599	8	<0.10	0.06	2.2		1060	1270		7.71		0.02						0.03		0.07				<0.001					0.001		2.7	<1.0		
GW5A	7/29/1999	184	46	35	22	<0.05	140	574	8	<0.10	<0.025	2.1		970	1310		7.39		0.03						<0.015		0.08				<0.001					0.003		3.1	<1.5		
GW5A	9/5/2006	206	51	36	20	<1	146	688	8	<0.1	0.07	1.7	31.4	1180	1560	120	7.30	<0.10	0.02	<0.10	<0.10	<0.005	<0.05	<0.01	0.12	<0.05	0.14	<0.001	<0.10	<0.05	<0.001	<0.10	0.02			0.000		1.3			
GW6	10/1/1981	54	13	38	13	0.0	249	81	9	0.36	<0.05	1.0		329	610	204	6.90	<0.05	0.01	<0.02	<0.1	<0.05	<0.1	<0.1	0.25	<0.05	0.17	<0.001	<0.05	<0.01	<0.002	<0.05	0.75			0.009		12.0			
GW6	1/1/1982	54	15	34	13	10.0	234	52	12	3.00	0.06	0.8		305	490	208	8.40	<0.05	0.01	<0.02	<0.1	<0.05	<0.1	<0.1	0.14	<0.05	0.04	<0.001	<0.05	<0.01	<0.002	<0.05	0.16			0.006		10.0			
GW6	4/1/1982	66	15	34	12	0.0	249	93	6	0.46	0.06	0.6		349	340	204	6.20	<0.05	0.01	<0.02	<0.1	<0.05	<0.1	<0.1	2.50	<0.05	0.07	<0.001	<0.05	<0.01	<0.002	<0.05	0.01			0.020		16.0			
GW6	7/1/1982	57	12	34	13	0.0	249	63	8	2.50	<0.05	0.6		310	375	204	7.70	<0.05	0.00	<0.02	<0.1	<0.05	<0.1	<0.1	0.89	<0.05	0.04	<0.001	<0.05	<0.01	<0.002	<0.05	0.01			0.009		<0.35			
GW6	10/1/1982	54	15	35	13	0.0	200	60	8	0.36	0.08	0.8		283	338	164	6.80	<0.05	0.01	<0.02	<0.1	<0.05	<0.1	<0.1	2.80	<0.05	0.09	<0.001	<0.05	<0.01	<0.002	<0.05	<0.005			0.008		11.0			
GW6	1/1/1983														325		7.50																							
GW6	4/1/1983	58	10	34	14	0.0	259	52	7	1.30	0.16			303	350	212	7.80		0.00						0.60							0.01			0.009		13.0			
GW6	7/1/1983														350		7.30																							
GW6	10/1/1983	61	12	34	14	0.0	259	55	7	5.00	0.10			310	450	212	8.00		0.00						2.30							0.01			0.009		1.5			
GW6	5/1/1984	60	12	29	14	0.0	249	52	6	0.49	<0.05			295	459	204	7.70		0.01						1.00							0.02			<0.005		3.1			
GW6	10/1/1984	64	19	32	14	0.0	259	52	8	<0.05	0.19			316	450	212	8.20		0.01						1.30							0.02			<0.005		3.5			
GW6	4/1/1985														310		6.80																							
GW6	7/1/1985														195		6.50																							
GW6	10/1/1985	66	10	25	10	0.0	244	55	8	<0.05	0.18			292	305	200	6.00		0.01						<0.05						<0.05	0.12								
GW7	1/1/1982	110	25	30	22	10.0	195	262	10	2.40	0.06	0.7		565	810	176	8.40	<0.05	0.01	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	<0.005			0.060		2.1			
GW7	4/1/1982	116	21	44	21	0.0	166	310	12	0.42	<0.05	0.8		606	670	136	7.50	<0.05	0.01	<0.02	<0.1	<0.005	<0.01	0.03	<0.05	<0.05	0.04	<0.001	<0.05	0.02	<0.002	<0.05	0.02			0.040		4.4			
GW7	7/1/1983	70	12	23	18	0.0	224	77	10	3.80	0.14			321	353	184	7.40		0.02						<0.05							0.09			0.060					
GW7	10/1/1983	98	19	26	22	0.0	220	164	16	8.20	<0.05			453	640	180	7.60		0.02						<0.05							0.05			0.070		2.8			
GW7	5/1/1984	102	20	30	24	0.0	207	209	10	2.10	<0.05			506	699	170	7.60		0.01						<0.05							0.03			0.100		1.7			
GW7	10/1/1984	99	21	31	22	0.0	244	170	15	1.40	0.08			480	630	200	8.20		0.02						<0.05							0.04			0.130		1.3			
GW7	4/1/1985														480		6.80																							
GW7	7/1/1985																7.20																							
GW7	10/1/1985	114	21	32	17	0.0	330	282	19	<0.05	0.13			594	398	165	6.40		0.02						0.07						<0.05	0.30						1.8		
GW7	10/11/1993	420	80	28	28	0.0	260			0.16		0.7		2248	455	213	7.14	0.81	0.00	<0.01	<0.01	<0.01	<0.05	<0.01	<0.05	0.34	0.42	<0.001	<0.1	<0.05	0.01	<0.01	<0.01			0.050		4.9			
GW9	10/1/1981	79	21	26	21	0.0	229	152	10	3.04	<0.05	1.5		421	800	188	7.10	<0.05	0.07	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.03	<0.001	<0.05	<0.01	<0.002	<0.05	0.06			0.030		2.6			
GW9	1/1/1982	98	21	26	23	0.0	232	200	6	2.50	0.06	1.5		488	685	190	8.20	<0.05	0.05	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.05	<0.001	<0.05	<0.01	<0.002	<0.05	0.03			0.030		4.7			
GW9	4/1/1982	85	19	27	19	0.0	239	150	6	0.41	<0.05	1.3		424	439	196	7.30	<0.05	0.05	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.02	<0.001	<0.05	<0.01	<0.002	<0.05	0.10			0.030		3.7			
GW9	7/1/1982	91	18	25	20	0.0	239	165	7	1.60	0.06	1.1		444	580	196	7.20	0.24	0.06	<0.02	<0.1	<0.005	<0.01	<0.01	1.10	<0.05	0.13	<0.001	<0.05	<0.01	<0.002	<0.05	0.09			0.030		5.4			
GW9	10/1/1982	108	22	26	21	0.0	239	184	7	0.17	<0.05	1.4		487	425	196	7.10	<0.05	0.07	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.10	<0.001	<0.05	<0.01	<0.002	<0.05	0.03			0.020		4.6			
GW9	1/1/1983														380		6.80																							
GW9	4/1/1983	88	19	25	31	0.0	244	158	7	0.64	0.09			450	425	200	7.20								<0.05							0.29			0.020		8.8			
GW9	7/1/1983														440		7.20																							
GW9	10/1/1983	90	17	25	20	0.0	234	142	7	4.20	0.06			416	580	192	7.50		0.08						<0.05							0.36			0.020		4.8			
GW9	5/1/1984	88	16	27	20	0.0	244	137	8	0.52	<0.05			416	599	200	7.80		0.06						<0.05							0.07			0.020		6.4			
GW9	10/1/1984	87	18	27	20	0.0	254	142	6	<0.05	0.15			427	600	207	8.20		0.08						<0.05							0.07			0.020		4.9			
GW9	4/1/1985														391		7.30																							
GW9	7/1/1985														262		6.70																							
GW9	10/1/1985	75	15	25	15	0.0	256	106	11	0.43	0.14			379	360	210	6.40		0.07						<0.05						<0.05	0.03						0.5		
GW9	10/6/1993	85	13	22	15	0.0	262	116	3	0.10		1.6		416		215	7.25	<0.1	0.06	<0.1	<0.1	<0.1	<0.05	<0.1	1.60	<0.05	0.08	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.055		4.0			
GW9	9/20/1996	78	14	22	14	<0.10	250	99	3	<0.10	<0.05	1.1	31.2	389	581	205	7.95	<0.10	0.06	<0.10	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.022		2.8			
GW9	11/24/1996	79	15	22	14	<0.10	245	113	5	<0.10	<0.05	1.1	34.1	389	584	201	8.22	0.17	0.06	<0.10	<0.10	<0.01	<0.05	<0.01	0.07	<0.05	<0.01	<0.001	<0.10	<0.05	0.00	<0.10	<0.01			0.019		5.5			
GW9	2/28/1997	73	14	23	15	<0.10	254	93	4	<0.10	<0.05	1.1	33.8	370	529	208	7.59	0.41	0.06	0.02	<0.10	<0.01	<0.05	<0.01	0.17	<0.05	<0.01	<0.001	<0.10	<0.05	0.00	<0.10	<0.01			0.017		2.9			
GW9	4/23/1997	81	15	21	14	<0.10	254	101	4	<0.1	<0.05	1.1	34.2	389	583	208	8.11	0.56	0.07	<0.10	<0.10	<0.01	<0.05	<0.01	0.28	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.019		3.1			
GW9	8/25/1997	84	14	24	16	<0.10	253	103	5	<0.10	<0.05	1.2	33.1	399	599	207	8.06	0.17	0.07	<0.10	<0.10	<0.01	<0.05	<0.01	0.07	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.015		5.0			
GW9	10/30/1997	77	14	24	15	<0.10	253	97	5	0.39	<0.05	1.3	32.5	394	604	207	7.99	<0.10	0.08	<0.10	<0.10	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.017		2.0			
GW9	8/25/1998	78	15	24	14	1.0	252	93	3	<0.10	0.05	1.1		381	587	78	7.96		0.08								0.01				<0.001					0.020	3.1	83.0			
GW9	8/4/1999	78	15	25	15	<0.10	247	93	4	<0.10	<0.05	1.1		371	583		7.89		0.08								<0.01				<0.001					0.018	1.0	5.0			
GW9	10/25/2006	80	15	24	14	<1	271	118	3	<0.1	<0.05	1.0	35.0	394	582	222	7.46	<0.10	0.07	<0.10	<0.10	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	<0.001	<0.10	0.01	0.2	0.1	0.020		6.0	<1	37	29
GW10	10/1/1981	539	82	33	22	0.0	307	1430	12	0.58	0.14	1.1		2269	3710	252	6.80	<0.05	0.01	<0.02	<0.1	0.02	0.03	<0.1	10.00	0.12	0.79	<0.001	<0.05	0.14	<0.002	<0.05	0.02			0.040		5.6			
GW10	1/1/1982	561	70	32	20	0.0	283	1450	9	2.00	0.09	1.0		2280	2410	232	8.00	<0.05	<0.002	<0.02	<0.1	0.01	0.02	<0.1	0.27	0.13	0.56	<0.001	<0.05	0.14	<0.002	<0.05	0.01			0.020		8.0			
GW10	4/1/1982	540	63	35	20	0.0	273	1450	8	0.45	0.14	0.9		2250	1170	224	7.00	<0.05	0.02	<0.02	<0.1	0.01	0.02	<0.1	19.00	0.10	0.74	<0.001	<0.05	0.13	<0.002	<0.05	0.02			0.020		12.0			
GW10	7/1/1982	330	75	28	17	0.0	259	1050	11	1.70	0.17	0.9		1638	2380	212	6.90	0.09	0.03	<0.02	<0.1	0.01	0.03	<0.1	16.00	0.10	0.66	<0.001	<0.05	0.14	<0.002	<0.05	0.12			0.020					
GW10	10/1/1982	669	93	36	22	0.0	259	1760	12	0.24	0.14	1.0		2719	2130	212	6.70	<0.05	0.04	<0.02	0.20	0.01	0.02	<0.1	20.00	0.10	0.66	<0.001	<0.05	<0.01	<0.002	<0.05	0.09			0.020		7.4			
GW10	1/1/1983														1670		6.80																							
GW10	4/1/1983	550	76	34	20	0.0	303	1530	6	0.57	0.15			2366	1800	248	6.80		0.03						17.00										0.020		10.0			
GW10	7/1/1983														1060		6.80																							
GW10	10/1/1983	557	86	35	20	0.0	288	1520	8	4.30	0.14			2368	2360	236	6.90		0.03						20.00							0.96			0.020		1.0			
GW10	5/1/1984	583	69	37	22	0.0	293	1535	10	0.51	0.12			2400	2310	240	7.00		0.01						20.00							0.68			0.020		8.8			
GW10	10/1/1984	580	50	40	22	0.0	303	1610	10	0.19	0.23			2462	2500	249	8.10		0.03						17.00							0.49			0.060		7.7			
GW10	4/1/1985														1630		6.60																							
GW10	7/1/1985														1190		7.00																							
GW10	10/1/1985	563	79	38	19	0.0	317	1510	13	<0.05	0.15			2384	1140	260	6.50		0.02						8.30						<0.05	0.62						6.2		
GW10	10/7/1993	593	69	28	14	0.0	301	1416	4	<0.1		1.3		2464		247	6.48	<0.1	<0.001	<0.1	<0.1	<0.1	<0.05	<0.1	16.10	<0.05	1.05	<0.001	<0.1	0.17	<0.001	<0.1	<0.01			0.032		102.0			
GW10A	10/20/1997	409	72	27	19	<0.05	296	1040	5	<0.05	0.22	1.2	23.4	1760	2030	243	7.80	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	4.10	<0.05	1.09	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.021		9.2			
GW10A	1/27/1998	400	73	28	20	0.1	301	1000	6	0.05	0.27	1.2	23.7	1750	1950	247	7.62	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	4.85	<0.05	1.07	<0.001	<0.10	<0.05	0.00	<0.10	<0.01			0.023		53.7			
GW10A	6/23/1998	367	72	24	17	0.1	299	1000	8	0.05	0.18	1.1	22.8	1750	1790	245	7.61	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	4.75	<0.05	1.04	<0.001	<0.10	<0.05	0.00	<0.10	0.02			0.023		51.6			
GW10A	7/13/1998	375	73	29	19	0.1	303	1000	6	0.05	0.16	1.1	22.9	1810	2010	248	7.71	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	4.80	<0.05	1.05	<0.001	<0.10	<0.05	0.00	<0.10	0.05			0.026		21.2			
GW10A	8/3/1999	367	69	29	21	<0.05	298	1010	8	<0.05	0.19	1.2		1790	2000		7.80		0.01						4.50		0.99				<0.001				0.026	11.9	12.4			
GW10A	9/5/2006	303	59	24	17	<1	305	807	4	0.20	0.13	0.9	20.6	1500	1910	250	7.20	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	2.45	<0.05	0.91	<0.001	<0.10	<0.05	0.00	<0.10	<0.01			0.020		6.8			
GW10A	10/12/2011	305	59	26	19	<5	267	818	5	<0.1	0.09	1.3	25.6	1420	1680		7.81	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	4.19	<0.05	0.91	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.179		18.0	9.3	70	50
GW11	10/1/1981	58	11	82	16	0.0	93	308	11	0.34	0.82	0.7		532	920	76	8.80	<0.05	0.01	<0.02	<0.1	<0.005	<0.01	<0.01	0.44	<0.05	0.04	<0.001	<0.05	<0.01	<0.002	<0.05	0.03			0.020		3.0			
GW11	1/1/1982	60	10	80	14	0.0	98	281	8	1.10	0.42	0.5		501	720	80	8.00	<0.05	0.01	<0.02	<0.1	<0.005	<0.01	<0.01	0.08	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			0.020		1.9			
GW11	4/1/1982	60	10	89	13	0.0	93	276	8	0.38	1.10	0.4		502	482	76	7.70	<0.05	0.00	<0.02	<0.1	<0.005	<0.01	<0.01	0.30	<0.05	0.02	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			0.010		3.2			

Table 3.4-14 Gas Hills Remote Satellite Historical Groundwater Quality Data

		Major Ions (mg/l) DISSOLVED											Non-Metals (mg/L)				Trace Metals (mg/l) DISSOLVED																Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Ammonium	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	Alkalinity as CaCO3	pH (std units)	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Uranium (mg/L)	Radium 222	Radium 226	Radium 228	Gross Alpha	Gross Beta
Sample ID	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	NH3	F	SiO2	TDS	Cond.	ALK	pH	Al	As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	NatU	222Ra	226Ra	228Ra	-	-
GW11	7/1/1982	61	9	87	14	0.0	98	300	10	1.00	1.20	0.4		529	590	80	7.20	<0.05	1.00	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.04			0.030		2.9			
GW11	10/1/1982									0.23	1.60	1.7				64		<0.05	0.01	<0.02	<0.1	<0.005	<0.01	<0.01	0.24	<0.05	0.03	<0.001	<0.05	0.12	<0.002	<0.05	0.82			0.020		3.6			
GW11	4/1/1983									0.47	1.90					80			0.00						0.52								0.03			0.020		2.4			
GW11	10/1/1983									2.50	0.83					80			0.00						0.52								0.01			0.010		3.3			
GW11	5/1/1984									0.45	0.13					115			0.01						0.47								0.01			0.060		2.5			
GW11	10/1/1984									0.81	1.00					71			<0.002						0.11								0.02			0.050		2.6			
GW11	1/1/1985		-							1.30	0.65					70		*	<0.002						0.13						<0.05	10.00		*			10.0			
GW11	9/19/1996	321	49	35	14	<0.10	223	670	141	<0.1	<0.5	0.6	36.9	1450	1690	183	7.45	<0.10	0.00	<0.10	<0.10	<0.01	<0.05	<0.01	0.05	<0.05	0.02	<0.001	<0.10	<0.05	0.01	<0.10	<0.01			0.134		4.2			
GW11	9/19/1996 (D)	311	48	26	14	<0.10	223	661	135	0.12	<0.5	0.6	36.5	1430	1680	183	7.51	<0.10	0.00	<0.10	<0.10	<0.01	<0.05	<0.01	0.06	<0.05	0.01	<0.001	<0.10	<0.05	0.02	<0.10	<0.01			0.133		3.3			
GW11	11/24/1996	303	47	26	14	<0.10	221	685	122	0.27	<0.5	0.6	36.9	1410	1610	181	7.94	<0.10	0.02	<0.10	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.01	<0.001	<0.10	<0.05	0.03	<0.10	<0.01			0.147		6.0			
GW11	2/25/1997	286	47	37	16	<0.10	218	650	112	0.17	<0.5	0.6	34.3	1350	1740	179	7.89	<0.10	0.02	0.02	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.10	<0.05	0.03	<0.10	<0.01			0.120		5.4			
GW11	4/23/1997	303	47	35	15	<0.10	216	684	106	0.19	<0.5	0.6	34.4	1423	1679	177	7.68	0.16	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.10	<0.05	0.02	<0.001	<0.10	<0.05	0.02	<0.10	<0.01			0.139		5.9			
GW11	11/4/1997	339	52	37	16	<0.10	218	741	122	0.21	0.10	0.7	33.1	1420	1800	179	7.75	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.07	<0.05	0.03	<0.001	<0.10	<0.05	0.02	<0.10	<0.01			0.159		4.5			
GW11	8/17/1998	330	52	40	16	1.0	219	749	118	0.19	0.06	0.7		1680	1840		7.93		0.01						<0.05		0.02				0.02					0.147		3.0			
GW11	8/3/1999	326	51	38	17	<0.10	221	756	137	0.14	<0.5	0.7		1560	1910		7.72		0.01						<0.05		0.03				0.03					0.191		19.7	3.1		
GW11	10/17/2006	230	39	36	14	<1	216	561	50	<0.10	0.09	0.7	27.0	958	1250	177	7.67	<0.10	0.07	<0.10	<0.10	<0.01	<0.05	<0.01	0.06	<0.05	0.13	<0.001	<0.10	<0.05	0.00	<0.10	0.03	0.1	0.1	0.059		23.7	4.4	71	54
GW11	10/12/2011	184	31	37	14	<5	198	467	24	0.10	<0.05	0.8	24.8	903	1180		7.92	<0.10	0.03	<0.10	0.10	<0.01	<0.05	<0.01	0.06	<0.05	31.00	<0.001	<0.10	<0.05	0.00	<0.10	0.04	23.8	0.3	0.034		11.0	4.9	63	42
TVA-MW1	10/1/01981	57	11	39	18	0.0	249	66	10	1.60	<0.05	0.7		323	620	204	7.20	<0.05	0.01	<0.02	<0.1	<0.005	<0.01	<0.01	0.07	<0.05	0.23	<0.001	<0.05	<0.01	<0.002	<0.05	0.03			0.008		2.0			
TVA-MW1	1/1/1982	60	7	36	18	10.0	232	60	7	1.10	<0.05	0.6		312	520	206	8.50	<0.05	0.20	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.15	<0.001	<0.05	<0.01	<0.002	<0.05	0.01			0.008		3.2			
TVA-MW1	4/1/1982	56	10	40	16	0.0	254	58	7	0.47	<0.05	0.5		312	332	208	7.50	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			<0.005		1.2			
TVA-MW1	7/1/1982	61	8	40	17	0.0	249	64	9	1.60	<0.05	0.4		321	384	204	7.60	<0.05	0.02	<0.02	0.20	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.03			<0.005		1.6			
TVA-MW1	10/1/1982	69	15	42	17	10.0	234	66	9	0.42	<0.05	1.0		344	340	216	7.00	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	<0.005			<0.005		0.9			
TVA-MW1	1/1/1983															334	6.90																								
TVA-MW1	4/1/1983	57	9	39	19	0.0	259	58	8	0.63	<0.05			317	345	212	7.50		0.02														0.02			<0.005		2.4			
TVA-MW1	7/1/1983														350																									
TVA-MW1	10/1/1983	58	8	42	18	0.0	259	54	7	4.70	<0.05			314	460		6.90																								
TVA-MW1	5/1/1984	57	7	43	18	0.0	250	58	9	0.62	<0.05			315	475	212	7.80		0.02						<0.05								0.05			<0.005		2.6			
TVA-MW1	10/1/1984	56	7	45	16	6.0	244	52	8	<0.05	0.07			310	450	205	8.10		0.01						<0.05								0.04			0.007		1.2			
TVA-MW1	4/1/1985														300	210	8.30		0.02						<0.05								0.04			<0.005		2.2			
TVA-MW1	7/1/1985														252		7.30																								
TVA-MW1	10/1/1985	55	8	50	13	0.0	256	53	12	<0.05	<0.05			311	302	210	7.60		0.02						<0.05						0.01	0.01					1.8			
TVA-MW1	9/23/1996	21	2	61	10	<0.1	199	40	5	<0.1	0.05	0.4	44.0	278	446	163	6.53	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.16	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001		<0.2			
TVA-MW1	9/23/1996 (D)	21	2	60	10	<0.1	198	40	5	<0.1	0.05	0.5	43.3	264	405	162	7.18	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.16	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001		<0.2			
TVA-MW1	11/24/1996	20	2	67	8	<0.1	218	46	6	<0.1	<0.05	0.4	45.1	245	400	179	8.29	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001		1.1			
TVA-MW1	3/5/1997	21	2	58	9	0.0	194	38	5	<0.1	0.07	0.4	41.3	272	407	159	7.94	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.15	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			<0.0003		1.8			
TVA-MW1	4/28/1997	20	2	64	10	0.0	192	38	5	<0.1	<0.05	0.4	42.0	274	409	157	8.14	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.0003		<0.2			
TVA-MW1	10/29/1997	20	2	60	9	<0.1	194	39	5	<0.1	<0.05	0.5	42.9	283	410	159	8.06	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.0003		<0.2			
TVA-MW2	10/1/01981	61	9	33	19	0.0	220	83	11	0.60	<0.05	0.5		323	590	180	7.20	<0.05	0.03	<0.02	<0.1	<0.005	<0.01	<0.01	0.08	<0.05	0.03	<0.001	<0.05	<0.01	<0.002	<0.05	0.03			0.030		0.4			
TVA-MW2	1/1/1982	63	6	30	20	10.0	203	80	9	0.84	<0.05	0.3		318	460	182	8.40	<0.05	0.03	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.01			<0.03		1.0			
TVA-MW2	4/1/1982	62	8	35	18	0.0	220	81	7	0.37	<0.05	0.3		319	320	180	7.70	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			0.030		0.8			
TVA-MW2	7/1/1982	52	8	35	19	0.0	190	80	10	1.30	<0.05	0.2		297	380	156	8.00	<0.05	0.03	<0.02	<0.1	<0.005	<0.01	<0.01	0.53	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.05			0.040		0.8			
TVA-MW2	10/1/1982	73	13	36	19	5.0	210	97	11	0.44	<0.05	0.6		357	334	184	6.20	<0.05	0.04	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			0.030		0.5			
TVA-MW2	1/1/1983					6.5									335																									
TVA-MW2	4/1/1983	63	7	35	21	0.0	234	80	10	1.10	<0.05			331	348	192	7.50	<0.05	0.03						<0.05								0.02			0.040					
TVA-MW2	7/1/1983														365		7.10																								
TVA-MW2	10/1/1983	66	8	35	20	0.0	229	84	8	4.50	<0.05			334	470	188	7.90		0.02						<0.05								0.04			0.030		3.9			
TVA-MW2	5/1/1984	63	9	35	20	0.0	220	85	9	0.80	<0.05			328	480	180	8.10		0.03						<0.05								0.03			0.030		1.2			
TVA-MW2	10/1/1984	60	5	36	19	0.0	220	82	8	<0.05	<0.05			319	440	180	8.20		0.03						<0.05								0.05			0.050		1.1			
TVA-MW2	4/1/1985														309		7.00																								
TVA-MW2	7/1/1985														281		7.00																								
TVA-MW2	10/1/1985	66	8	35	19	0.0	244	92	13	<0.35	<0.05			360	310	200	7.20								<0.05						0.01	0.01					0.4			
TVA-MW2	9/23/1996	57	7	31	14	<.1	211	52	5	<0.1	<0.05	0.4	52.1	331	486	173	7.13	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.019		0.2			
TVA-MW2	11/24/1996	59	7	29	12	<.1	223	76	7	<0.1	<0.05	0.3	56.2	377	480	183	8.30	0.14	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	0.06	<0.05	<0.01	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.022		<0.2			
TVA-MW2	3/7/1997	61	8	28	13	0.0	216	63	5	<0.1	<0.05	1.3	52.1	347	473	177	8.12	0.22	0.02	0.06	<0.1	<0.01	<0.05	<0.01	0.11	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.021		1.1			
TVA-MW2	4/28/1997	63	7	29	13	0.0	210	64	5	<0.1	<0.05	0.3	56.4	325	477	172	8.03	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.018		0.9			
TVA-MW2	8/20/1997	61	7	30	14	0.0	212	61	5	<0.1	0.09	0.4	57.2	315	471	174	8.16	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.019		0.6			
TVA-MW2	11/4/1997	64	8	29	14	<0.1	215	69	6	<0.1	0.07	0.4	53.0	310	504	176	8.04	0.11	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	0.06	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.029		<0.2			
TVA-MW2	11/4/1997 (D)	64	8	29	14	<0.1	217	69	5	<0.1	0.06	0.4	52.4	296	501	178	8.07	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.023		0.9			
TVA_MW3	10/1/1981	19	4	62	11	0.0	181	44	10	0.55	<0.05	0.5		238	440	148	7.40	<0.05	0.01	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.11	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			0.008		<0.2			
TVA_MW3	1/1/1982	21	3	56	11	5.0	176	42	8	0.77	<0.05	0.4		232	390	152	8.30	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.04	<0.001	<0.05	<0.01	<0.002	<0.05	0.01			0.009		0.6			
TVA_MW3	4/1/1982	19	4	65	10	0.0	185	40	6	0.37	<0.05	0.4		235	239	152	7.20	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	0.06	<0.001	<0.05	<0.01	<0.002	<0.05	0.02			<0.005		0.6			
TVA_MW3	7/1/1982	20	3	65	11	0.0	181	43	8	1.20	<0.05	0.3		238	225	148	7.70	0.09	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	0.24	<0.05	0.04	<0.001	<0.05	<0.01	<0.002	<0.05	0.04			<0.005		0.9			
TVA_MW3	10/1/1982	22	5	67	9	0.0	185	45	33	0.84	<0.05	0.5		272	249	152	7.70	<0.05	0.02	<0.02	<0.1	<0.005	<0.01	<0.01	<0.05	<0.05	<0.01	<0.001	<0.05	<0.01	<0.002	<0.05	0.01			<0.005		1.9			
TVA_MW3	1/1/1983														250		7.70																								
TVA_MW3	4/1/1983	19	2	65	12	0.0	190	41	8	1.50	<0.05			242	253	156	7.80		0.01						<0.05								0.02			<0.005					
TVA_MW3	7/1/1983														270		7.20																								
TVA_MW3	10/1/1983	20	7	66	11	0.0	185	41	7	3.90	<0.05			242	438	153	7.90		0.01						<0.05								0.02			<0.005		1.3			
TVA_MW3	5/1/1984	21	3	65	12	0.0	183	40	9	0.48	<0.05			241	362	150	8.10		0.01						<0.05								0.02			<0.005		7.0			
TVA_MW3	10/1/1984	18	11	69	11	0.0	195	41	9	<0.05	<0.05			256	356	160	8.10		0.02						<0.05								<0.05			<0.005		9.3			
TVA_MW3	4/1/1985														244		7.00																								
TVA_MW3	7/1/1985														192		7.00																								
TVA_MW3	10/1/1985	24	3	61	7	0.0	195	44	9	<0.005	<0.05			246	204	160	6.40		0.01						0.04						<0.05	<0.05					0.4			
TVA_MW3	9/23/1996	61	9	34	15	<0.1	265	50	5	<0.1	<0.05	0.6	45.7	335	521	217	7.68	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.20	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001		2.5			
TVA_MW3	11/24/1996	61	9	33	13	<0.1	270	56	6	<0.1	<0.05	0.5	47.7	330	515	221	8.18	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.17	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.000		2.5			
TVA_MW3	3/7/1997	62	9	33	15	0.0	271	48	5	<0.1	<0.05	0.5	45.6	350	542	222	7.83	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.18	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.0003		2.9			
TVA_MW3	4/29/1997	65	10	33	14	0.0	270	53	5	<0.1	<0.05	0.5	14.2	341	523	221	7.87	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.18	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.0003		2.4			
TVA_MW3	11/4/1997	70	10	34	16	<0.1	277	55	5	<0.1	<0.05	0.7	43.9	324	555	227	8.10	<0.1	0.03	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.17	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.003		2.7			
BUSS-1	10/7/1993	555	115	41	34	0.0	22	1964	14	0.10		1.5		2820		18	5.84	<0.1	<0.001	<0.1	<0.1	<0.1	<0.05	<0.01	0.07	<0.05	2.46	<0.001	<0.1	0.20	<0.001	<0.1	0.03			0.253		1.9			
BUSS 2	10/7/1993	565	115	40	33	0.0	22	1882	8	<0.1		1.5		2695		18	5.90	<0.1	<0.001	<0.1	<0.1	<0.1	<0.05	<0.01	<0.05	<0.05	2.45	<0.001	<0.1	0.18	<0.001	<0.1	0.03			0.281		1.8			
MU96M-1	9/27/1996	65	14	132	12	<0.1	309	220	14	<0.1	0.12	1.1	18.3	662	946	235	7.78	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	0.13	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002	5100	44.3			
MU96M-1	11/19/1996	64	14	131	13	<0.1	257	223	26	<0.1	0.24	1.1	17.1	648	912	211	7.93	<0.1	0.002	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002	9480	34.9			
MU96M-1	2/27/1997	58	13	131	13	0.0	296	213	25	<0.1	0.29	1.1	16.1	599	978	243	8.21	<0.1	0.006	0.02	<0.1	<0.01	<0.05	<0.01	0.14	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.005	6280	35.7			
MU96M-1	4/23/1997	62	13	124	12	0.0	304	226	16	<0.1	0.24	1.0	16.7	625	938	249	7.94	<0.1	0.005	<0.1	0.10	<0.01	<0.05	<0.01	0.12	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.000		31.6			
MU96M-1	8/20/1997	60	13	127	14	0.0	301	219	23	<0.1	0.29	1.2	17.1	622	972	247	8.16	<0.1	0.005	<0.1	0.10	<0.01	<0.05	<0.01	0.08	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		29.9			
MU96M-1	11/3/1997	65	14	130	13	<0.1	312	225	15	<0.1	0.17	1.2	17.3	578	984	256	7.99	<0.1	0.006	<0.1	<0.1	<0.005	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.003		30.241.4			
MU96M-1	8/24/1998	64	15	130	12	1.0	310	223	17	<0.1	0.17	1.0		618	963		7.82		0.010						0.38		0.07				<0.001					0.003			4.5		
MU96M-1	10/24/2006	62	15	126	11	<1	311	237	12	<0.1		1.1	17.8	560	919	255	7.58	<0.1	0.009	<0.1	<0.1	<0.005	<0.05	<0.01	0.43	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.4	0.1	0.002		53.7	4.4	176	62
MU96M-1	10/12/2011	62	14	134	12	<5	282	225	16	<0.1	0.05	1.0	20.1	614	935		7.99	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	0.59	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	0.6	0.1	0.002		46.0	2.6	323	93
MU96M-2	9/27/1996	80	18	123	15	<0.1	306	254	14	<0.1	0.12	0.9	28.9	714	987	251	8.16	<0.1	0.004	<0.1	0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.004	7060	47.6			
MU96M-2	11/19/1996	72	14	138	18	<0.1	224	286	51	<0.1	0.15	1.1	14.5	727	1030	184	8.08	<0.1	<0.001	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.004	14500	40.8			
MU96M-2	2/27/1997	67	14	138	18	0.0	228	300	32	<0.1	0.27	1.0	14.1	682	1060	187	8.10	<0.1	0.003	0.02	0.1	<0.01

Table 3.4-14 Gas Hills Remote Satellite Historical Groundwater Quality Data

		Major Ions (mg/l) DISSOLVED											Non-Metals (mg/L)				Trace Metals (mg/l) DISSOLVED															Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Ammonium	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	Alkalinity as CaCO3	pH (std units)	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Uranium (mg/L)	Radium 222	Radium 226	Radium 228	Gross Alpha	Gross Beta
Sample ID	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	NH3	F	SiO2	TDS	Cond.	ALK	pH	Al	As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	NatU	222Ra	226Ra	228Ra	-	-
MU96M-2	8/24/1998	71	19	130	15	1.0	262	298	19	<0.1	0.16	0.9		695	1080		7.85		0.002						<0.05		0.03				<0.001					0.002		41.2	3.5		
MU96M-2	10/24/2006	74	19	134	14	<1	262	327	16	<0.1		1.0	17.6	648	1050	215	7.59	<0.1	0.002	<0.1	0.10	<0.005	<0.05	<0.01	0.32	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.3	0.0	0.002		44.5	2.8	128	56
MU96 M-2	10/12/2011	73	17	137	14	<5	255	312	15	0.30	<0.05	1.1	19.7	703	1040		7.99	<0.1	0.00	<0.1	0.10	<0.01	<0.05	<0.01	0.45	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	0.5	0.0	0.002		16.0	5.2	118	49
MO-1	9/27/1996	50	<1.0	162	12	55.0	7	267	39	<0.1	0.21	1.3	29.5	685	1270	150	11.14	<0.1	<0.001	<0.1	0.16	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.003		8.2			
MO-1	11/19/1996	55	<1.0	160	12	44.2	6	307	38	<0.1	0.20	1.3	25.5	695	1240	134	11.14	0.72	<0.001	<0.1	0.14	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.003		1.9			
MO-1	2/27/1997	54	<1.0	166	13	53.0	17	339	38	<0.1	0.15	1.4	22.4	709	1350	114	10.75	0.64	<0.001	0.10	0.14	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.003		3.8			
MO-1	4/23/1997	61	<1	173	13	50.4	17	400	37	<0.1	0.20	1.4	21.4	770	1362	109	10.72	0.59	0.002	<0.1	0.14	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.003		1.3			
MO-1	8/20/1997	51	<1.0	168	12	55.5	20	341	38	0.53	0.19	1.4	23.6	693	1290	117	10.70	0.61	<0.001	<0.1	0.14	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.003		1.1			
MO-1	11/3/1997	60	<1.0	207	14	40.1	11	462	39	<0.1	0.18	1.6	18.5	865	1420	95	10.80	0.49	<0.001	<0.1	0.13	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.003		5.6			
MO-1	8/24/1998	46	<1	171	11	44.5	10	329	36	<0.1	0.12	1.2		714	1290		10.90		<0.001						<0.05		<0.01				<0.001					<0.003		3.0	<1.0		
MO-1	10/17/2006	17	1	187	10	4.0	17	381	33	<0.1		1.1	16.6	612	940	34	9.34	<0.1	<0.001	<0.1	0.10	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	<0.03	<0.01	0.001		28.7	1.4	36	97
MO-1	10/11/2011	23	3	166	10	<5	74	297	36	<0.1	<0.05	1.1	17.2	594	903		8.07	<0.1	<0.001	<0.1	0.20	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	<0.03	<0.01	0.001		38.0	4.1	140	51
P1	9/27/1996	76	18	114	15	<0.1	290	241	15	<0.1	0.16	<0.1	0.9	684	959	238	7.83	<0.1	0.002	<0.1	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.020	151000	1840.0			
P1	11/19/1996	76	18	109	14	<0.1	295	243	13	<0.1	0.11	<0.1	0.8	645	908	242	7.99	<0.1	<0.001	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.018	352000	1800.0			
P1	11/19/1996 (D)	77	19	109	14	<0.1	295	248	13	<0.1	0.10	<0.1	0.9	645	901	242	8.04	<0.1	<0.001	<0.1	<0.01	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.021	342000	1900.0			
P1	2/27/1997	71	18	109	14	0.0	298	237	14	<0.1	0.07	<0.1	0.9	590	968	244	8.03	<0.1	0.003	0.0	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.020	201900	2059.0			
P1	4/23/1997	77	18	105	14	0.0	299	250	13	<0.1	0.15	<0.1	0.8	622	950	245	7.93	<0.1	0.002	<0.1	0.10	<0.01	<0.05	<0.01	0.06	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.019		1715.0			
P1	8/20/1997	75	18	105	14	0.0	298	249	14	0.12	0.19	0.1	1.0	630	970	244	8.20	<0.1	0.002	<0.1	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.017		1100.0			
P1	11/3/1997	76	18	110	14	<0.1	300	244	12	<0.1	0.14	<0.1	1.0	630	949	246	8.06	<0.1	0.002	<0.1	0.10	<0.005	<0.05	<0.01	<0.05		0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.021		1650.0			
P1	8/24/1998	76	19	109	13	1.0	297	240	13	<0.1	0.13	<0.1	0.9	632	974		7.88		0.004						0.07		0.07				<0.001					0.024		1830.0	12.1		
P1	10/17/2006	77	19	104	13	<0.1	293	246	12	<0.1		1.0	17.1	610	864	240	7.85	<0.1	0.004	<0.1	0.10	<0.005	<0.05	<0.01	0.33	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	0.03	0.3	0.1	0.022		1680.0	5.8	3610	1120
P1	10/11/2011	74	17	112	14	<5	283	235	12	<0.1	0.06	0.9	19.3	623	933		7.93	<0.1	0.003	<0.1	0.10	<0.005	<0.05	<0.01	0.31	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	0.4	0.1	0.019		1760.0	4.4	8440	1970
MP-1	9/27/1996	60	11	105	24	<0.1	270	189	13	<0.1	0.13	0.9	19.8	589	839	221	8.16	<0.1	0.014	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.018	246000	696.0			
MP-1	11/19/1996	61	12	99	22	<0.1	271	195	13	<0.1	0.09	0.9	19.5	560	803	222	8.23	<0.1	0.009	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.021	472000	782.0			
MP-1	2/27/1997	57	12	101	21	0.0	278	187	13	<0.1	0.07	0.9	17.1	515	852	228	7.98	<0.1	0.015	0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.027	286900	958.0			
MP-1	4/23/1997	61	13	95	18	0.0	277	197	11	<0.1	0.12	0.9	17.5	545	832	227	7.98	<0.1	0.014	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.024		911.0			
MP-1	8/20/1997	62	14	98	19	0.0	282	191	12	<0.1	0.20	1.0	17.6	542	854	231	8.06	<0.1	0.013	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.023		572.0			
MP-1	11/3/1997	62	13	99	18	<0.1	282	189	12	<0.1	0.08	1.1	17.8	539	838	231	8.09	<0.1	0.015	<0.1	<0.1	<0.005	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.026		1000.0			
MP-1	8/24/1998	62	15	99	16	1.0	283	183	13	<0.1	0.12	1.0		539	857		7.99		0.02						<0.05		0.06				<0.001					0.029		1260.0	7.2		
MP-1	10/19/2006	66	15	100	12	<1	274	179	12	<0.1		1.2	17.6	544	738	225	7.62	<0.1	0.02	<0.1	<0.1	<0.005	<0.05	<0.01	0.13	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.1	0.1	0.024		1300.0	6.9	3920	951
MP-1	10/11/2011	65	13	105	13	<5	271	185	13	<0.1	0.07	1.1	19.7	540	833		7.90	<0.1	0.02	<0.1	0.1	<0.005	<0.05	<0.01	0.19	<0.05	0.09	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	0.3	0.1	0.022		1510.0	1.7	6070	1260
MUMP97-1	10/18/1997	84	16	107	14	<0.1	301	229	13	<0.1	0.11	1.0	16.1	596	965	247	8.04	<0.1	0.03	<0.1	<0.1	<0.01	<0.05	<0.01	0.13	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.052		898.0			
MUMP97-1	1/27/1998	84	16	110	14	1.0	310	227	16	<0.1	0.14	1.0	16.5	628	944	254	8.03	<0.1	0.04	<0.1	<0.1	0.01	<0.05	<0.01	0.84	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.053		850.0			
MUMP97-1	6/23/1998	79	15	101	13	<0.1	305	253	16	<0.1	0.12	1.0	16.4	627	873	2550	7.99	<0.1	0.04	<0.1	<0.1	0.01	<0.05	<0.01	0.80	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.052		747.0			
MUMP97-1	7/11/1998	82	15	110	14	1.0	311	223	14	<0.1	0.09	1.0	15.3	628	960	255	7.96	<0.1	0.04	<0.1	<0.1	0.01	<0.05	<0.01	0.80	<0.05	0.16	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.052		783.0			
MUMP97-1	10/26/2006	77	16	105	13	4.0	296	237	12	<0.1		1.0	16.2	556	882	249	7.63	<0.1	0.04	<0.1	<0.1	0.01	<0.05	<0.01	0.61	<0.05	0.13	<0.001	<0.1	<0.05	0.00	<0.1	0.05	0.6	0.1	0.056		680.0	2.5	1060	303
MUMP97-1	10/11/2011	76	15	109	14	<5	279	224	13	<0.1	0.07	1.0	18.1	596	908		7.82	<0.1	0.03	<0.1	0.1	<0.005	<0.05	<0.01	0.67	0.00	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	0.03	0.7	0.1	0.046		538.0	6.7	2590	534
MU-1	9/26/1996	42	9	223	13	3.2	269	407	17	<0.1	0.20	1.0	13.3	897	1280	225	8.33	0.16	<0.001	<0.1	0.28	<0.01	<0.05	<0.01	0.11	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.01			0.003		2.4			
MU-1	11/24/1996	43	9	226	12	<0.1	277	404	13	0.27	<0.1	0.9	12.0	874	1200	227	8.23	<0.1	<0.001	<0.1	0.27	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.1			0.004		2.7			
MU-1	2/26/1997	39	8	228	13	0.0	270	390	13	<0.1	0.16	0.9	11.2	834	1300	221	8.11	<0.1	<0.001	<0.1	0.27	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.1			0.002		2.8			
MU-1	4/23/1997	42	9	218	12	0.0	272	415	12	<0.1	0.17	0.9	11.0	866	1276	223	8.28	<0.1	<0.001	<0.1	0.28	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.1			0.003		2.6			
MU-1	8/20/1997	42	9	221	13	0.0	277	398	11	<0.1	0.23	1.0	11.0	844	1300	227	8.25	<0.1	<0.001	<0.1	0.26	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.1			0.004		2.2			
MU-1	11/3/1997	44	9	231	13	<0.1	281	409	11	<0.1	0.16	1.1	11.1	814	1320	230	8.21	<0.1	<0.001	<0.1	0.29	<0.005	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	0.00	<0.1	<0.1			0.004		4.6			
MU-1	11/3/1997 (D)	44	9	229	13	<0.1	279	417	11	<0.1	0.17	1.1	11.1	812	1350	229	8.24	<0.1	<0.001	<0.1	0.29	<0.005	<0.05	<0.01	0.07	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.1			0.005		3.9			
MU-1	8/18/1998	42	9	238	12	1.0	271	427	11	<0.1	0.18	1.1		886	1320		8.03		<0.001						0.18		0.04				<0.001					0.005		9.5	<1.0		
MU-1	8/18/1998 (D)	42	9	236	12	<0.1	272	427	10	<0.1	0.19	1.1		874	1310		8.06		<0.001						0.20		0.04				0.001					0.004		7.0	1.0		
MU-1	10/20/2006	42	9	234	13	<1	274	396	10	<0.1	0.18	1.1	11.4	808	1100	224	7.93	<0.1	<0.001	<0.1	0.03	<0.005	<0.05	<0.01	0.25	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	0.08	0.2	0.0	0.004		15.2	1.9	60	31
MU-1	10/13/2011	26	6	245	13	6.0	196	395	17	<0.1	<0.05	1.0	16.4	787	1200		8.37	<0.1	<0.001	<0.1	0.30	<0.01	<0.05	<0.01	0.06	0.00	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	1.4	0.0	0.006		21.0	1.4	153	47
M-4	9/26/1996	16	4	217	16	21.7	212	343	14	<0.1	0.17	0.8	14.8	790	1140	204	9.26	0.33	<0.001	<0.1	0.23	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.136		4.0			
M-4	11/19/1996	24	5	217	14	10.6	242	343	11	<0.1	0.15	0.8	15.6	788	1090	213	8.89	0.15	<0.001	<0.1	0.24	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.131		10.4			
M-4	3/6/1997	13	5	217	13	15.5	204	326	12	<0.1	0.17	0.8	16.8	733	1140	189	9.13	0.19	<0.001	0.0	0.24	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.057		8.5			
M-4	6/20/1997	4	3	216	14	21.9	166	339	11	<0.1	0.12	0.8	16.3	669	1140	167	9.37	0.19	<0.001	<0.1	0.23	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.041		3.6			
M-4	8/30/1997	13	5	227	14	8.8	220	352	12	<0.1	0.17	0.9	15.4	743	1140	192	8.85	<0.1	<0.001	<0.1	0.23	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.039		19.8			
M-4	10/28/1997	27	7	223	13	5.5	270	347	9	<0.1	0.07	1.0	14.4	749	1190	229	8.56	<0.1	<0.001	<0.1	0.24	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.059		15.1			
M-4	8/31/1998	26	5	216	13	6.9	269	315	9	<0.1	0.15	0.9		764	1200		8.66		<0.001						<0.05		<0.01				<0.001					0.046		17.4	<1.0		
M-4	11/1/2006	30	5	216	13	<1	288	338	11	<0.1	0.18	0.9	12.8	750	1210	236	7.75	<0.1	<0.001	<0.1	0.20	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	<0.03	<0.01	0.044		22.4	<1	111	51
M-4	10/13/2011	28	4	241	14	8.0	255	335	10	<0.1	0.08	0.9	15.7	763	1160		8.42	<0.1	<0.001	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	<0.03	<0.01	0.033		32.0	3.0	266	82
MO-3	9/17/1991	35	6	161	23	0.0	214	261	34	<0.01	0.13	1.2		607	1018		8.30	<0.1	0.00	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			<0.03		5.8			
MO-3	9/26/1996	60	14	164	16	<0.1	314	301	15	<0.1	0.15	0.9	20.2	775	1090	257	8.22	<0.1	<0.001	<0.1	0.13	<0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.075		34.8			
MO-3	11/19/1996	62	14	167	15	<0.1	318	300	12	<0.1	0.13	0.8	20.3	761	1040	261	8.16	<0.1	<0.001	<0.1	0.12	<0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.071	120300	37.2			
MO-3	2/26/1997	59	13	167	15	0.0	323	294	12	<0.1	0.15	0.8	19.3	725	1140	265	8.18	<0.1	<0.001	0.0	0.12	<0.01	<0.05	0.02	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.02			0.062		43.4			
MO-3	4/23/1997	63	14	159	14	0.0	323	309	12	<0.1	0.15	0.8	19.3	754	1110	265	8.00	<0.1	<0.001	<0.1	0.13	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.075		49.5			
MO-3	8/20/1997	65	14	167	16	0.0	328	308	12	<0.1	0.19	0.9	19.7	757	1140	269	8.19	<0.1	<0.001	<0.1	0.12	<0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.067		55.4			
MO-3	10/31/1997	61	14	168	15	<0.1	327	305	12	<0.1	0.14	0.9	19.5	744	1110	269	8.19	<0.1	<0.001	<0.1	0.13	<0.005	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.063		78.6			
MO-3	8/18/1998	63	14	169	15	1.0	323	313	12	<0.1	0.16	0.9		760	1140	268	8.29		<0.001						0.07		0.03				<0.001					0.059		72.6	<1.0		
MO-3	10/20/2006	62	14	169	15	<1	315	293	11	<0.1	0.14	0.9	18.6	730	956	258	7.69	<0.1	<0.001	<0.1	0.10	<0.005	<0.05	<0.01	0.07	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.1	0.0	0.016		10.7	1.6	212	114
MO-3	10/12/2011	59	12	176	15	<5	305	301	12	<0.10	0.08	0.9	21.2	725	1090		8.07	<0.1	<0.001	<0.1	0.10	<0.005	<0.05	<0.01	0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	0.1	0.0	0.010		33.0	3.8	218	117
P-2C	9/26/1996	11	3	183	14	43.1	142	269	13	<0.1	0.21	1.1	24.5	662	877	178	9.73	0.15	0.00	<0.1	0.18	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.082		12.3			
P-2C	3/6/1997	15	4	184	12	41.7	158	250	12	<0.1	0.20	1.0	25.3	648	1000	189	9.67	0.14	0.00	0.01	0.18	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.093	62050	31.7			
P-2C	5/5/1997	10	0	195	13	89.9	22	257	9	<0.1	0.20	0.9	24.4	603	1080	177	10.86	0.28	0.01	<0.1	0.20	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.005		2.0			
P-2C	8/30/1997	14	5	198	13	20.7	197	284	11	<0.1	0.16	1.1	22.4	652	1000	191	9.27	<.1	0.00	<0.1	0.20	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.081		38.2			
P-2C	10/27/1997	17	4	197	12	21.3	203	261	11	<0.1	0.09	1.2	22.4	663	997	196	9.27	<.1	0.00	<0.1	0.20	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.082		26.8			
M-3C	11/19/1996	25	5	227	14	6.6	268	351	11	<0.1	0.14	0.7	13.5	814	1130	229	8.64	<0.1	<0.001	<0.1	0.28	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.026		25.1			
M-3C	3/6/1997	8	1	209	13	25.4	84	374	17	<0.1	0.17	1.0	22.7	726	1120	106	9.73	0.46	<0.001	0.0	0.32	<0.01	<0.05	<0.01	0.37	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	0.04			0.025		5.1			
M-3C	4/29/1997	26	5	237	14	4.0	276	359	8	<0.1	0.13	0.8	14.2	775	1182	232	8.41	<0.1	<0.001	<0.1	0.30	<0.01	<0.05

Table 3.4-14 Gas Hills Remote Satellite Historical Groundwater Quality Data

		Major Ions (mg/l) DISSOLVED												Non-Metals (mg/L)				Trace Metals (mg/l) DISSOLVED															Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Ammonium	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	Alkalinity as CaCO3	pH (std units)	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Uranium (mg/L)	Radium 222	Radium 226	Radium 228	Gross Alpha	Gross Beta
Sample ID	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	NH3	F	SiO2	TDS	Cond.	ALK	pH	Al	As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	NatU	222Ra	226Ra	228Ra	-	-
BS96 M-1	10/30/1997	60	11	106	11	<0.1	309	169	9	<0.1	0.08	1.2	16.5	523	820	253	8.08	<0.1	0.03	<0.1	<0.1	<0.005	<0.05	<0.01	0.53	<0.05	0.09	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.011		14.7			
BS96 M-1	8/25/1998	61	12	106	11	1.0	306	171	8		0.12	1.1		505	818		7.99		0.03						0.98		0.10									0.010		40.3	<1.0		
BS96 M-1	10/20/2006	58	11	110	10	<1	290	164	7	<0.1	0.12	1.2	16.3	512	712	238	7.67	<0.1	0.04	<0.1	<0.1	<0.005	<0.05	<0.01	0.72	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	0.04	0.7	0.1	0.006		80.6	<1	86	29
BS96 M-1	10/13/2011	55	10	114	11	<5	281	171	8	<0.1	0.05	1.0	18.2	517	798		7.92	<0.1	0.04	<0.1	<0.1	<0.005	<0.05	<0.01	0.80	<0.05	0.09	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	1.2	0.1	0.006		13.0	2.6	90	3
BSMP-1	9/12/1996	68	14	124	13	<0.1	272	262	14	<0.1	<0.005	1.1	16.2	601	974	223	7.95	<0.1	0.06	<0.1	0.10	<0.01	<0.05	<0.01	0.22	<0.05	0.09	<0.001	<0.1	<0.05	<0.001	<0.1	0.01			0.283	28700	51.3			
BSMP-1	11/11/1996	66	14	128	13	<0.1	270	257	15	<0.1	0.09	1.1	15.6	600	872	221	7.89	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	0.01	<0.05	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.320	1230	79.1			
BSMP-1	2/27/1997	65	15	128	13	0.0	281	257	15	<0.1	0.06	1.1	16.0	628	994	230	7.87	<0.1	0.05	0.02	0.12	<0.01	<0.05	0.02	<0.05	<0.05	0.08	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.057	23290	93.5			
BSMP-1	4/25/1997	72	14	133	13	0.0	278	272	14	<0.1	0.10	1.0	15.6	658	965	228	8.10	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.032		87.0			
BSMP-1	8/26/1997	71	14	129	13	0.0	278	267	15	<0.1	0.13	1.2	14.7	659	900	228	7.98	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.051		91.4			
BSMP-1	10/30/1997	74	13	123	12	<0.1	279	275	16	<0.1	0.08	1.2	15.5	660	1000	229	8.05	<0.1	0.05	<0.1	0.10	<0.005	<0.05	<0.01	0.26	<0.05	0.09	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.038		83.9			
BSMP-1	8/25/1998	72	14	125	12	1.0	278	266	15	<0.1	0.12	1.1		649	1010		7.85		0.08								0.09				<0.001					0.033		98.0	<1.0		
BSMP-1	10/20/2006	76	16	136	13	<1	277	281	15	<0.1	0.15	1.2	14.9	682	944	227	7.65	<0.1	0.07	<0.1	0.10	<0.005	<0.05	<0.01	0.64	<0.05	0.09	<0.001	<0.1	<0.05	<0.001	<0.1	0.05	2.8	0.1	0.028		51.4	7.6	211	44
BSMP-1	10/11/2011	74	14	142	14	<5	266	292	16	<0.1	0.06	1.1	17.0	684	1030		7.98	<0.1	0.07	<0.1	0.10	<0.005	<0.05	<0.01	1.06	0.00	0.11	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	2.7	0.1	0.027		111.0	0.9	773	197
BSMP-2	9/13/1996	54	13	118	13	<0.1	318	206	10	<0.1	0.30	1.0	20.2	502	859	261	7.99	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	0.05	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.010	38600	35.5			
BSMP-2	11/11/1996	62	13	112	11	<0.1	312	183	10	<0.1	0.29	1.1	18.2	545	781	256	7.89	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.077	17700	37.7			
BSMP-2	2/28/1997	60	14	110	12	0.0	320	182	9	<0.1	0.26	1.1	16.4	546	882	262	7.76	<0.1	0.02	0.03	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.013	21360	35.9			
BSMP-2	4/25/1997	67	13	116	12	0.0	317	195	9	<0.1	0.32	1.0	16.7	562	866	260	7.96	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.009		30.7			
BSMP-2	8/26/1997	65	13	115	9	0.0	310	195	9	<0.1	0.34	1.2	15.1	573	779	254	7.93	<0.1	0.03	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.012		40.4			
BSMP-2	11/3/1997	68	13	111	11	<0.1	316	195	10	<0.1	0.29	1.3	15.6	526	902	259	8.09	<0.1	0.02	<0.1	<0.1	<0.005	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.011		33.6			
BSMP-2	8/25/1998	65	13	108	11	1.0	311	190	9	<0.1	0.28	1.1		529	888		7.91										0.08				<0.001					0.011		53.1	<1.0		
BSMP-2	10/24/2006	62	14	113	11	5.0	302	198	9	<0.1	0.06	1.2	15.4	508	825	255	7.78	<0.1	0.05	<0.1	<0.1	<0.005	<0.05	<0.01	0.20	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	0.1	0.1	0.018		64.2	1.4	165	59
BSMP-2	10/11/2011	60	12	117	12	<5	289	191	9	0.20	0.12	1.1	176.0	554	849		8.01	<0.1	0.05	<0.1	<0.1	<0.005	<0.05	<0.01	0.24	<0.05	0.08	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	1.2	0.1	0.016		43.0	7.5	266	75
BSMP-3	9/16/1996	76	13	106	12	<0.1	298	219	9	<0.1	0.06	1.1	16.9	459	879	244	7.97	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	0.51	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.330	106000	150.0			
BSMP-3	11/11/1996	64	11	110	13	<0.1	299	188	9	<0.1	0.14	1.0	18.9	515	776	245	7.96	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.056	123000	156.0			
BSMP-3	2/28/1997	62	12	108	13	0.0	314	181	9	<0.1	0.58	0.9	21.9	547	871	257	8.14	<0.1	0.00	0.02	<0.1	<0.01	<0.05	<0.01	0.06	<0.05	0.09	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.019	25400	82.0			
BSMP-3	4/25/1997	72	13	112	13	0.0	316	196	9	<0.1	0.16	0.9	18.6	559	861	259	8.19	<0.1	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	0.05	<0.05	0.10	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.058		163.7			
BSMP-3	8/26/1997	73	13	114	13	0.0	323	198	10	<0.1	0.14	1.0	18.4	585	815	265	8.18	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	0.10	<0.05	0.11	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.054		155.0			
BSMP-3	10/28/1997	71	14	112	13	<0.1	322	194	9	<0.1	0.07	1.1	18.0	588	896	264	8.11	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	0.05	<0.05	0.13	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.056		143.0			
BSMP-3	9/1/1998	71	14	107	12	1.0	328	179	9	<0.1	0.11	1.0		570	903		7.94		0.02						0.29		0.12									0.039		124.0	2.3		
BSMP-3	10/26/2006	72	15	111	12		512			<0.1	<0.05		17.8					0.30	0.02	<0.1	<0.1	<0.01	<0.05	<0.01	0.80	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	0.8	0.1	0.052		190.0	<1	405	158
BSMP-3	10/12/2011	57	13	112	12	<5	289	178	9	2.40	<0.05	0.9	16.7	525	825		7.85	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	0.42	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	7.5	0.2	0.030		98.0	3.0	506	129
BSPW-1	8/26/1992	76	15	133	13	0.0	295	275	8	<0.1	0.13	0.8		672	819	242	7.30	<0.1	0.07	<0.1	<0.1	<0.01	<0.05	<0.01	0.46	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	0.05			<0.003		335.0			
BSPW-1	9/16/1996	71	11	109	13	<0.1	304	199	9	<0.1	0.10	0.9	17.7	500	846	249	7.97	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.059	89200	140.0			
BSPW-1	11/11/1996	69	11	111	11	<0.1	296	202	8	<0.1	0.07	1.1	15.7	538	795	243	7.89	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	0.05	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.032	123000	305.0			
BSPW-1	2/27/1997	66	13	110	11	0.0	304	203	8	<0.1	<.05	1.1	16.1	570	897	249	7.78	<0.1	0.04	0.02	<0.1	<0.01	<0.05	<0.01	0.19	<0.05	0.14	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.042	118300	353.0			
BSPW-1	4/23/1997	72	13	105	10	0.0	301	220	8	<0.1	0.09	1.1	15.6	581	885	247	8.12	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	0.42	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.036		308.0			
BSPW-1	8/26/1997	72	12	114	11	0.0	300	214	8	<0.1	0.10	1.2	15.2	587	787	246	7.86	<0.1	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	0.28	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.038		325.0			
BSPW-1	11/3/1997	74	13	111	11	<0.1	304	215	8	<0.1	0.10	1.2	15.7	542	949	249	8.02	<0.1	0.05	<0.1	<0.1	<0.005	<0.05	<0.01	<.05	<0.05	0.15	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.035		272.0			
BSPW-1	8/25/1998	71	13	110	11	1.0	301	206	7	<0.1	0.12	1.1		539	889		7.95		0.07								0.15				<0.001					0.041		319.0	<1		
BSPW-1	10/24/2006	70	13	114	11	5.0	301	207	7	<0.1	<0.05	1.2	16.1	510	853	254	7.71	<0.1	0.06	<0.1	<0.1	<0.005	<0.05	<0.01	0.58	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.4	0.2	0.034		349.0	2.9	1030	282
BSPW-1	10/12/2011	69	23	86	15	<5	286	200	8	<0.1	0.05	1.1	19.3	558	860		7.91	<0.1	0.06	<0.1	0.1	<0.005	<0.05	<0.01	0.16	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	0.03	1.1	0.1	0.030		344.0	4.7	1950	454
BSMU-1	9/13/1996	57	19	86	19	<0.1	250	201	10	<0.1	<0.05	0.7	15.7	442	813	205	8.02	<0.1	<0.001	<0.1	0.1.1	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.005	3620	12.6			
BSMU-1	11/11/1996	58	20	54	18	<0.1	254	196	12	<0.1	0.10	0.7	15.6	515	734	208	7.94	<0.1	0.00	<0.1	0.1	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.006	1100	4.6			
BSMU-1	2/28/1997	39	17	86	21	0.0	199	189	12	<0.1	0.08	0.6	16.6	455	754	163	8.11	<0.1	0.00	0.03	<0.1	<0.01	<0.05	<0.01	0.05	<0.05	0.01	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			<.003	128	13.8			
BSMU-1	4/23/1997	59	22	81	17	0.0	257	210	11	<0.1	0.10	0.6	16.9	533	822	211	8.21	<0.1	0.00	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		6.5			
BSMU-1	8/26/1997	59	23	87	18	0.0	264	202	12	<0.1	0.14	0.7	16.5	536	738	216	8.02	<0.1	0.00	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		8.0			
BSMU-1	10/28/1997	66	25	86	16	<0.1	283	199	9	<0.1	0.06	0.8	17.4	550	858	232	8.23	<0.1	0.00	<0.1	0.1	<0.01	<0.05	<0.01	0.05	<0.05	0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		7.2			
BSMU-1	10/25/1998	67	25	83	15	<1.0	294	199	10	<0.1	0.13	0.7		550	876		7.98		0.00						0.08		0.02				<0.001							59.8	<1		
BSMU-1	10/31/2006	72	24	80	14	<1	295	216	11	<0.1	0.15	0.8	16.3	544	887	242	7.71	<0.1	0.00	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	0.1	0.0	0.002		5.8	3.9	16	25
BSMU-1	10/31/2006 (D)	72	24	80	14	<1	295	216	11	<0.1	0.15	0.8	16.3	544	887	242	7.71	<0.1	0.00	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01	0.1	0.0	0.002		5.8	3.9	16	25
BSMU-1	10/12/2011	69	12	115	11	<5	288	201	10	<0.1	0.08	0.8	18.7	541	847		7.93	<0.1	0.00	<0.1	<0.1	<0.01	<0.05	<0.01	0.17	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.4	0.0	0.001		5.4	2.6	19	22
4-1A	9/24/1996	42	10	216	12	<0.1	273	410	12	<0.1	0.22	0.9	12.2	862	1270	224	7.36	0.20	<0.001	<0.1	0.3	<0.01	<0.05	<0.01	0.22	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.02			0.031		31.5			
4-1A	11/13/1996	41	10	213	11	<0.1	273	412	14	<0.1	0.18	0.9	11.9	832	1210	202	8.28	<0.1	0.00	<0.1	0.3	<0.01	<0.05	<0.01	0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.022		30.3			
4-1A	3/4/1997	33	8	221	11	0.0	285	353	12	<0.1	0.25	1.0	12.9	818	1245	234	8.23	0.39	<0.001	0.01	0.3	<0.01	<0.05	<0.01	0.17	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.037	17820	55.8			
4-1A	6/20/1997	36	8	230	11	3.7	289	381	11	<0.1	0.56	1.0	17.8	834	1220	242	8.36	1.53	<0.001	<0.1	0.3	<0.01	<0.05	<0.01	0.52	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.032		28.3			
PEACH M-1	9/25/1996	77	22	165	14	<0.1	231	447	13	<0.1	0.27	0.5	13.9	842	1250	189	7.91	<0.1	<0.001	<0.1	0.2	<0.01	<0.05	<0.01	0.15	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.08								
PEACH M-1	11/13/1996	73	20	163	14	<0.1	226	460	13	<0.1	0.22	0.6	13.2	823	1200	185	8.21	<0.1	<0.001	<0.1	0.2	<0.01	<0.05	<0.01	0.15	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01								
PEACH M-1	11/13/1996 (D)	73	20	163	14	<0.1	210	460	12	<0.1	0.22	0.6	13.2	826	1150	172	8.11	<0.1	<0.001	<0.1	0.2	<0.01	<0.05	<0.01	0.16	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01								
PEACH M-1	3/3/1997	72	22	162	14	0.0	224	420	11	<0.1	0.24	0.5	13.6	842	1425	184	7.97	<0.1	<0.001	<0.1	0.2	<0.01	<0.05	<0.01	0.09	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01								
PEACH M-1	6/20/1997	82	21	165	14	0.0	234	457	11	<0.1	0.22	0.5	13.4	834	1230	192	8.07	<0.1	<0.001	<0.1	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	0.00	<0.1	<0.01								
PEACH M-1	8/26/1997	80	21	175	14	0.0	235	452	11	<0.1	0.25	56.0	13.9	874	1160	193	8.05	<0.1	<0.001	<0.1	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01								
PEACH M-1	10/31/1997	73	15	192	14	<0.1	242	459	13	<0.1	0.24	0.6	15.9	875	1250	198	8.11	<0.1	<0.001	<0.1	0.3	<0.005	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01								
PEACH M-1	8/17/1998	81	21	176	14	1.0	235	457	8	<0.1	0.28	0.6		893	1270		8.10		<0.001						0.47		0.03				<0.001											
PEACH M-1	8/18/1998 (D)	79	21	170	13	<1.0	236	463	10	0.10	0.25	0.6		892	1290		8.11		0.00						0.47		0.03				0.00											
PEACH M-1	10/23/2006	83	22	173	15	3.0	235	481	11	<0.1	0.19	0.5	14.3	774	1170	197	7.82	<0.1	<0.001	<0.1	0.2	<0.005	<0.05	<0.01	0.51	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.4	0.0	0.002		19.7	9.2	53	36
PEACH M-1	10/12/2011	80	20	177	15	<5	240	434	10	<0.1	0.22	0.7	16.5	849	1230		8.02	<0.1	<0.001	<0.1	<0.1	<0.01	<0.05	<0.01	0.51	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.01	1.0	0.0	0.002		15.0	13.3	103	51
PEACH M-2	9/25/1996	142	<1.0	219	42	73.4	6	519	116	<0.1	1.15	0.9	8.1	1130	2240	217	11.35	<0.1	0.01	<0.1	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.008	7950	22.1			
PEACH M-2	11/13/1996	64	5	206	24	2.8	210	442	4	<0.1	0.55	0.7	11.9	860	1300	176	8.38	<0.1	0.01	<0.1	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.038	9320	19.5			
PEACH M-2	3/3/1997	47	7	212	22	15.7	90	463	38	<0.1	0.88	0.6	14.2	893	1360	97	9.49	<0.1	0.01	0.10	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.032	5890	25.0			
PEACH M-2	6/20/1997	52	8	218	20	13.2	123	504	29	<0.1	0.74	0.7	12.6	882	1310	120	9.28	<0.1	0.00	<0.1	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.020		19.2			
PEACH M-2	8/26/1997	46	8	223	18	9.9	111	499	27	<0.1	0.74	0.8	13.3	905	1190	106	9.20	<0.1	0.00	<0.1	0.2	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.022		21.0			
PEACH M-2	10/31/1997	48	11	217	16	4.8	159	484	21	<0.1	0.46	0.7	12.1	905	1330	137	8.73	<0.1	0.00	<0.1	0.3	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.021		25.0			
PEACH M-2	10/31/1997 (D)	49	11	220	17	5.7	157	498	22	<0.1	0.50	0.8	12.3	908	1340	137	8.81	<0.1	0.00	<0.1	0.3	<0.005	<0.05	<0.01	<0.05	<0.05	<0.01	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.022		23.7			
PEACH M-2	8/17/1998	50	13	229	15	2.1	172	513	17	<0.1	0.38	0.8		913	1350		8.34		0.00						<0.05		<0.01				<0.001					0.026		19.0	2.2		
PEACH M-2	8/17/1998 (D)	49	13	224	14	2.0	173	510	16	0.10	0.39	0.8		928	1370		8.32		0.00						0.05		0.01				0.00					0.025		20.8	1.6		
PEACH M-2	10/24/2006	58	16	224	13

Table 3.4-14 Gas Hills Remote Satellite Historical Groundwater Quality Data

		Major Ions (mg/l) DISSOLVED											Non-Metals (mg/l)				Trace Metals (mg/l) DISSOLVED															Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Ammonium	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	Alkalinity as CaCO3	pH (std units)	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Uranium (mg/L)	Radium 222	Radium 226	Radium 228	Gross Alpha	Gross Beta
Sample ID	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	NH3	F	SiO2	TDS	Cond.	ALK	pH	Al	As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	NatU	222Ra	226Ra	228Ra	-	-
PEACH MP-2	10/12/2011	52	12	211	13	<5	195	423	14	<0.1	0.17	1.0	14.3	826	1220		8.23	<0.1	<0.001	<0.1	<0.1	<0.01	<0.05	<0.01	0.08	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.1	0.0	0.020		54.0	7.3	331	115
PC	9/24/1996	72	15	167	13	<0.1	215	420	11	<0.1	0.17	1.0	16.3	846	1210	176	7.34	<0.1	<0.001	<0.1	0.3	<0.1	<0.05	<0.01	0.12	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002	2530	8.6			
PC	11/13/1996	70	14	163	12	<0.1	220	425	11	<0.1	0.12	0.9	16.1	822	1140	180	8.29	<0.1	0.00	<0.1	0.3	<0.1	<0.05	<0.01	0.06	<0.05	0.06	<0.001	<0.1	<0.05	0.00	<0.1	<0.01			0.003	2320	8.7			
PC	10/23/2006	78	16	177	14	3.0	219	457	9	<0.1	0.16	0.9	17.2	800	1140	184	7.79	<0.1	0.00	<0.1	0.3	<0.1	<0.05	<0.01	0.50	<0.05	0.06	<0.001	<0.1	<0.05	<0.001	<0.1	0.04	0.3	0.1	0.001		14.9	9.9	59	41
PE	9/25/1996	71	15	184	13	<0.1	249	452	10	<0.1	0.13	1.0	15.7	889	1270	204	6.93	<0.1	<0.001	<0.1	0.3	<0.01	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001	2400	9.6			
PE	11/13/1996	73	15	191	13	<0.1	239	454	12	<0.1	0.10	1.0	16.1	854	1200	196	8.21	<0.1	0.00	<0.1	0.3	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.005	3610	11.2			
PE	11/13/1996 (D)	70	15	181	12	<0.1	242	434	12	<0.1	0.11	1.0	16.2	863	1210	198	8.29	<0.1	<0.001	<0.1	0.3	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.004	3660	10.1		#	
PE	3/3/1997	68	16	184	13	0.0	226	432	11	<0.1	0.15	0.9	15.6	872	1455	185	7.98	<0.1	<0.001	<0.1	0.3	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.004	2850	12.8			
PE	6/20/1997	56	14	198	13	0.0	215	438	14	<0.1	0.21	0.9	12.0	827	1240	176	8.18	<0.1	<0.001	<0.1	0.3	<0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.025		45.9			
PE	8/30/1997	75	15	194	14	0.0	229	438	12	0.14	0.15	1.1	15.5	904	1300	188	8.24	<0.1	0.00	<0.1	0.3	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.009		10.9			
PE	10/31/1997	73	15	192	14	<0.1	229	459	12	<0.1	0.14	1.1	15.9	879	1290	188	8.19	<0.1	<0.001	<0.1	0.32	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.007		11.7			
PE	10/31/1997 (D)	70	15	196	14	<0.1	229	450	13	<0.1	0.15	1.1	15.7	889	1280	188	8.20	<0.1	<0.001	<0.1	0.37	<0.005	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.006		10.6			
PE	8/18/1998	74	16	194	13	1.0	226	474	12	<0.1	0.14	1.0		910	1320		8.19		<0.001			<0.005				0.30	0.05				<.001					0.007		26.7	5.8		
PE	10/23/2006	74	16	194	14	3.0	220	484	11	<0.1	0.16	1.0	16.2	804	1190	185	7.82	<0.1	<0.001	<0.1	0.30	<0.005	<0.05	<0.01	0.28	<0.05	0.05	<0.001	<0.1	<0.05	<0.001	<0.1	0.02	0.2	0.1	0.001		14.6	8.5	59	39
PF	9/25/1996	85	20	77	14	<0.1	231	268	7	<0.1	0.17	0.5	18.4	566	806	189	7.89	<0.1	<0.001	<0.1	0.12	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		15.9			
PF	9/25/1996 (D)	81	19	74	13	<0.1	231	277	7	<0.1	0.17	0.5	18.3	572	869	189	7.86	<0.1	<0.001	<0.1	0.12	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001		10.4			
PF	11/5/1997	88	20	79	13	<0.1	234	269	6	<0.1	0.19	0.6	17.5	561	890	192	8.09	<0.1	<0.001	<0.1	0.13	<0.005	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.001		6.5			
PF	10/23/2006	83	20	81	14	4.0	229	265	5	<0.1	0.22	0.5	18.8	540	815	192	7.67	<0.1	<0.001	<0.1	0.10	<0.005	<0.05	<0.01	0.77	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.1	0.03	0.5	0.0	0.000		14.4	6.8	43	33
PD (PO)	9/24/1996	47	9	300	13	<0.1	265	615	14	<0.1	0.19	0.9	15.0	1150	1170	217	7.31			<0.1	0.42	<0.01	<0.05	<0.01	0.10	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		2.0			
PD (PO)	11/13/1996	49	9	308	13	<0.1	224	634	14	<0.1	0.17	0.8	15.8	1120	1570	184	8.18			<0.1	0.41	<0.01	<0.05	<0.01	<.1	<0.05	0.13	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.004	2790	4.9			
PD (PO)	3/3/1997	46	10	300	14	0.0	244	584	13	<0.1	0.28	0.8	15.0	1140	1695	200	8.13			<0.1	0.40	<0.01	<0.05	<0.01	<.05	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.003	1150	11.2			
PD (PO)	6/20/1997	41	9	303	14	2.6	203	628	15	0.51	0.90	0.8	6.8	1090	1620	170	8.34	0.17		<0.1	0.38	<0.01	<0.05	<0.01	0.23	<0.05	0.07	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.012		4.5			
PD (PO)	8/30/1997	52	9	324	14	0.0	259	615	14	<0.1	0.23	0.9	15.2	1170	1710	212	8.22		0.00	<0.1	0.40	<0.01	<0.05	<0.01	0.08	<0.05	0.13	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.002		4.2			
PD (PO)	11/4/1997	55	10	309	14	<0.1	264	627	15	<0.1	0.26	0.9	15.4	1130	1780	216	8.17		0.00	<0.1	0.43	<0.01	<0.05	<0.01	<.05	<0.05	0.14	<0.001	<0.1	<0.05	<0.001	<0.1	<0.01			0.003		2.1			
PD (PO)	8/18/1998	56	10	309	14	1.0	275	625	13	<0.1	0.24	0.9		1100	1740		8.25		0.01						0.49		0.15				<.001				0.002		25.4	2.0		
PD (PO)	10/23/2006	59	11	297	14	<1	271	605	13	<0.1	0.24	0.9	15.8	1110	1500	222	7.76	<0.10	0.01	<0.1	0.40	<0.01	<0.05	<0.01	1.00	<0.05	0.17	<0.001	<0.1	<0.05	<0.001	<0.1	0.03	1.2	0.2	0.002		8.7	3.2	115	43
PCHMO97-1	10/16/1997	62	13	198	14	<0.1	182	466	17	<0.1	0.15	0.9	13.2	841	1290	149	8.13	<0.10	0.00	<0.10	0.23	<0.01	<0.05	<0.01	0.11	<0.05	0.05	<.001	<0.10	<0.05	<0.001	<0.10	<0.01			<.0003		7.2			
PCHMO97-1	1/27/1998	58	13	199	16	1.0	167	457	23	<0.1	0.18	1.0	12.8	847	1240	137	8.03	<0.10	<.001	<0.10	0.23	0.01	<0.05	<0.01	0.18	<0.05	0.04	<.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		41.0			
PCHMO97-1	6/23/1998	53	12	192	14	<0.1	174	475	23	<0.1	0.13	0.9	12.6	873	1170	143	8.03	<0.10	<.001	<0.10	0.24	0.01	<0.05	<0.01	0.18	<0.05	0.04	<.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		7.7			
PCHMO97-1	7/11/1998	57	12	194	14	1.0	178	432	18	<0.1	0.11	0.9	11.9	864	1260	146	7.83	<0.10	<.001	<0.10	0.23	0.01	<0.05	<0.01	0.18	<0.05	0.04	<.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		26.1			
PCHMO97-1	8/2/1999	57	13	195	14	<1.0	175	453	21	<0.1	0.14	0.9		853	1250		8.22								0.34		0.05				<.001				0.001		12.0			
PCHMO97-1	10/18/2006	56	13	194	13	<1	168	437	20	<0.1	0.15	1.1	12.6	808	1150	138	8.00	<0.10	<.001	<0.10	0.20	<0.01	<0.05	<0.01	0.28	<0.05	0.05	<.001	<0.10	<0.05	<0.001	<0.10	0.04	0.3	0.1	0.001		32.8	7.7	99	63
PCHMO97-1	10/13/2011	55	11	207	13	<5	166	445	20	<0.1	0.09	1.1	14.1	833	1220		8.03	<0.10	<.001	<0.10	0.20	<0.01	<0.05	<0.01	0.29	<0.05	0.05	<.001	<0.10	<0.05	<0.001	<0.10	0.02	0.3	0.1	0.000		6.1	11.5	25	23
PCHMP97-1	10/17/1997	73	18	174	14	<0.1	174	459	18	<0.1	0.22	0.8	12.7	826	1270	143	8.12	<0.1	<0.001	<0.1	0.23	<0.1	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.10	<0.01			0.033	44800	444.0			
PCHMP97-1	1/27/1998	74	18	176	15	1.0	176	452	20	<0.1	0.21	0.8	12.7	852	1220	144	8.04	<0.1	<0.001	<0.1	0.22	0.01	<0.05	<0.01	0.19	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.10	<0.01			0.121		511.0			
PCHMP97-1	6/23/1998	71	18	170	14	<0.1	176	467	21	<0.1	0.18	0.8	12.5	846	1140	144	8.03	<0.1	<0.001	<0.1	0.22	0.01	<0.05	<0.01	0.15	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.10	<0.01			0.124		430.0			
PCHMP97-1	7/11/1998	73	17	173	14	1.0	180	439	19	<0.1	0.20	0.8	11.9	848	1240	148	7.88	<0.1	<0.001	<0.1	<0.1	0.01	<0.05	<0.01	0.14	<0.05	0.03	<0.001	<0.1	<0.05	<0.001	<0.10	0.02			0.086		431.0			
PCHMP97-1	8/2/1999	70	18	171	15	<1.0	174	458	21	<0.1	0.19	0.8	11.5	843	1240		8.14	<0.1	<0.001	<0.1	0.19				0.20		0.03	<0.001			<0.001				0.077		393.0			
PCHMP97-1	10/18/2006	70	18	172	14	<1	169	435	19	<0.1	0.20	0.9	12.2	812	1120	138	8.01	<0.10	<.001	<0.10	0.20	<0.01	<0.05	<0.01	0.22	<0.05	0.03	<.001	<0.10	<0.05	<0.001	<0.10	0.05	0.2	0.0	0.037		580.0	17.3	2030	400
PCHMP97-1	10/13/2011	68	16	180	15	<5	165	443	18	<0.1	0.15	0.8	14.1	819	1190		8.02	<0.10	<.001	<0.10	<0.1	<0.01	<0.05	<0.01	0.33	<0.05	0.03	<.001	<0.10	<0.05	<0.001	<0.10	0.01	0.4	0.0	0.036		356.0	9.1	2070	678
WSL96M-1	9/27/1996	126	19	35	20	<0.05	227	249	16	<0.10	0.05	0.7	31.1	645	853	186	8.09	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.10	<0.05	0.09	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.004	4160	10.1			
WSL96M-1	11/13/1996	110	15	32	18	<0.05	198	247	16	<0.10	<0.025	0.8	25.5	543	756	162	8.30	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.08	<0.05	0.07	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.048	4330	8.7			
WSL96M-1	2/28/1997	99	15	32	18	0.1	185	221	12	<0.10	<0.025	0.8	23.4	507	759	152	8.18	<0.10	0.01	0.03	<0.10	<0.01	<0.05	<0.01	0.10	<0.05	0.07	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.003	4050	9.1			
WSL96M-1	4/23/1997	103	17	28	16	0.1	171	244	9	<0.1	0.06	0.7	23.3	523	741	140	7.87	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.11	<0.05	0.08	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.003		8.2			
WSL96M-1	8/25/1997	114	19	31	18	0.1	196	256	7	<0.10	<0.025	0.7	27.7	553	784	161	8.03	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.05	<0.05	0.09	<0.001	<0.10	<0.05	0.00	<0.10	<0.005			0.005		8.1			
WSL96M-1	10/30/1997	106	19	29	16	<0.05	211	234	5	<0.10	<0.025	0.7	28.4	552	778	173	8.00	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	0.07	<0.05	0.09	<0.001	<0.10	<0.05	<0.001	<0.10	<0.005			0.006		6.5			
WSL96M-1	8/25/1998	114	21	30	16	1.0	222	237	3	<0.10	0.06	0.7		550	812		7.81		0.01						0.10						<0.001				0.005		27.0	4.4		
WSL96M-1	8/4/1999	115	21	30	16	<0.50	221	249	5	0.10	0.05	0.7		578	813		7.87		0.01						0.29						<0.001				0.004		9.7	5.5		
WSL96M-1	10/25/2006	107	20	28	15	<1	228	231	2	<0.1	<0.05	0.7	28.1	510	759	187	7.65	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	0.27	<0.05	0.12	<0.001	<0.10	<0.05	<0.001	<0.10	0.02	0.3	0.1	0.005		11.5	2.3	32	31
WSL96MP-1	10/3/1996	80	8	29	10	<0.10	284	61	6	<0.10	<0.05	0.4	45.7	378	558	233	8.12	<0.10	0.02	<0.10	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.10	<0.05	0.00	<0.10	<0.01			0.008	153000	1200.0			
WSL96MP-1	11/21/1996	87	9	30	11	<0.10	287	64	7	<0.10	<0.05	0.4	47.1	360	569	235	7.92	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.10	<0.05	0.01	<0.10	<0.01			0.016	644000	1310.0			
WSL96MP-1	3/4/2011	80	9	29	11	<0.10	283	62	6	<0.10	<0.05	0.4	45.9	366	576	232	8.03	<0.10	0.01	0.04	<0.10	<0.01	<0.05	<0.01	0.07	<0.05	0.06	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.012	782300	1320.0			
WSL96MP-1	5/5/1997	84	9	31	11	<0.10	290	64	<1	<0.1	<0.05	0.4	45.2	380	575	238	7.97	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.08	<0.05	0.06	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.012		1240.0			
WSL96MP-1	8/25/1997	87	8	31	12	<0.10	292	66	6	<0.10	<0.05	0.4	46.6	396	589	239	8.07	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.13	<0.05	0.06	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.012		1250.0			
WSL96MP-1	10/30/1997	81	8	30	11	<0.10	289	63	5	<0.10	<0.05	0.5	47.0	389	582	237	7.98	<0.10	0.01	<0.10	<0.10	<0.005	<0.05	<0.01	0.12	<0.05	0.06	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.012		1050.0			
WSL96MP-1	8/24/1998	86	9	31	11	1.0	290	65	6	<0.10	<0.05	0.4		374	579		7.82		0.02						0.49		0.07				<0.001				0.014		1400.0	5.2		
WSL96MP-1	8/4/1999	86	9	31	11	<1.00	284	64	5	<0.10	0.05	0.4	44.0	376	582		7.92		0.01	<0.10					0.69		0.06				<0.001				0.013		1160.0	7.5		
WSL96MP-1	10/17/2006	84	8	29	10	<1	282	61	5	<0.1	0.10	0.4	48.2	324	584	231	7.80	<0.10	0.02	<0.10	<0.10	<0.005	<0.05	<0.01	0.10	<0.05	0.05	<0.001	<0.10	<0.05	<0.001	<0.10	0.02	0.1	0.1	0.012		1220.0	3.0	1160	531
PRI-1	10/11/1993	547	96	26	23	0.0	390	1548	6	0.13		0.6		2468		320	6.80	<0.1	0.00	<0.1	<0.1	<0.1	<0.05	<0.1	3.07	<0.05	0.87	<0.001	<0.1	0.17	0.02	<0.1	0.01			0.012		20.1			
PRI-1	11/12/1996	459	26	77	6	<0.10	400	972	51	<0.10	0.12	0.5	22.8	1940	2540	328	7.16	<0.10	0.00	<0.10	<0.10	<0.01	<0.05	<0.01	0.81	<0.05	0.32	<0.001	<0.10	<0.05	<0.001	<0.10	0.03			0.01		2.1			
PRI-1	3/4/1997	672	118	22	24	0.1	397	1710	8	<0.10	0.15	0.5	29.6	2975	3390	325	7.57	<0.10	0.00	0.10	<0.10	<0.01	<0.05	<0.01	2.95	<0.05	0.81	<0.001	<0.10	<0.05	<0.001	<0.10	0.02			0.01		26.1			
PRI-1	4/28/1997	629	115	29	26	0.1	400	1883	10	<0.10	0.12	0.5	56.4	3018	2988	328	7.57	<0.10	0.00	<0.10	<0.10	<0.01	<0.05	<0.01	0.05	<0.05	0.86	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.01		18.0			
PRI-1	8/25/1997	747	108	22	27	0.1	406	1870	9	<0.10	0.11	0.5	30.4	3070	3040	333	7.69	<0.10	<0.001	<0.10	<0.10	<0.01	<0.05	<0.01	3.60	<0.05	0.84	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.01		16.4			
PRI-1	10/30/1997	675	102	22	24	<0.05	405	1730	9	<0.10	0.18	0.5	29.6	3060	2930	332	7.58	<0.10	<0.001	<0.10	<0.10	<0.005	<0.05		2.10	<0.05	0.85	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.01		14.5			
PRI-1	8/25/1998	601	107	22	24	1.0	398	1680	8	<0.10	0.23	0.5		2950	3030		7.85		0.00						3.30		0.82				0.00				0.01		56.1	9.7		
PRI-1	8/4/1999	645	129	23	26	<0.50	394	1701	10	<0.10	0.13	0.5		3000	3010		7.54		<0.001						2.69		0.70				<0.001				0.01		43.5	8.7		
PRI-1	9/5/2006	595	106	21	23	<1	356	1610	6	<0.10	0.26	0.4	26.1	2840	3100	292	6.95	<0.10	<0.001	<0.10	<0.10	<0.01	<0.05	<0.01	3.00	<0.05	0.88	<0.001	<0.10	<0.05	0.00	<0.10	0.04			0.01		12.1			
PRI-1	9/27/2011	670	119	22	24	<0.05	400	1850	9	<0.10	0.13	0.5	33.4	3070	2810	328	7.18	<0.10	<0.001	<0.10	<0.10	<0.01	<0.05	<0.01	3.40	<0.05	0.91	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.01		21.5			
PRI-1	10/12/2011	583	105	23	24	<5	337	1690	8	<0.1	0.08	0.6	30.2	2770	2800		7.89	<0.10	<0.001	<0.10	<0.10	<0.01	<0.05	<0.01	3.55	<0.05	0.88	<0.001	<0.10	<0.05	<0.001	<0.10	0.03	10.1	1.0	0.01		14.0	6.5	58	52
BUMU97-1	10/20/1997	239	65	57	29	<0.10	184	823	5	<0.10	0.18	0.8	17.2	1350	1670	151	8.01	<0.10	<0.001	<0.10	<0.10	<0.01	<0.05	<0.01	0.82	<0.05	0.05	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		11.0			
BUMU97-1	1/27/1998	337	90	65	34	1.0	215	1200	6	<0.10	0.25	0.7	18.5	1850	2070	176	7.71	<0.10	<0.001	<0.10	<0.10	0.01	<0.05	<0.01	1.79	<0.05	0.07	<0.001	<0.10	<0.05	0.00	<0.10	<0.01			0.003		41.6			
BUMU97-1	6/22/1998	314	86	63	33	<0.10	216	1130	8	0.13	0.18	0.6	18.2	1910	1950	177	7.71	<0.10	<0.001	<0.10	<0.10	0.01	<0.05	<0.01	1.70	<0.05	0.06	<0.001	<0.10	<0.05	0.00	<0.10	0.02			0.003		23.1			
BUMU97-1	7/11/1998	328	87	64	32	1.0	224	1070	4	<0.10	0.17	0.6	17.0	1890	2130	183	7.85	<0.10	<0.001	<0.10	<0.10	0.01	<0.05	<0.01	1.80	<0.05	0.06	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.003		34.3			
BUMU97-1	7/11/1998 (D)	327	87	64	32	1.0	224	1080	5	<0.10	0.16	0.6	17.0	1880	2130	184	7.83	<0.10	<0.001	<0.10	<0.10	0.01	<0.05	<0.01	1.80	<0.05	0.06	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.003		25.8			
BUMU97-1	8/4/1999	299	82	60	32	<0.10	217	1120	6	<0.10	0.19	0.6		1890	2150		7.73		<0.001						1.70		0.05				<0.001				0.003		21.5	12.6		
BUMU97-1	10/25/2006	330	90	60	31	<1	217	1220	5

Table 3.4-14 Gas Hills Remote Satellite Historical Groundwater Quality Data

		Major Ions (mg/l) DISSOLVED											Non-Metals (mg/L)				Trace Metals (mg/l) DISSOLVED															Trace Metals (mg/l) TOTALS		Radiometrics (pCi/L) DISSOLVED					
		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Sulfate	Chloride	Nitrite + Nitrate as N	Ammonium	Fluoride	Silica	Total Dissolved Solids @ 180°C	Conductivity (umho/cm)	Alkalinity as CaCO3	pH (std units)	Aluminum	Arsenic	Barium	Boron	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Vanadium	Zinc	Iron	Manganese	Uranium (mg/L)	Radium 222	Radium 226	Radium 228	Gross Alpha	Gross Beta
Sample ID	Sample Date	Ca	Mg	Na	K	CO3	HCO3	SO4	Cl	NO2+NO3	NH3	F	SiO2	TDS	Cond.	ALK	pH	Al	As	Ba	B	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Mo	Ni	Se	V	Zn	Fe	Mn	NatU	222Ra	226Ra	228Ra	-	-
VECA MW-1	4/28/1997	580	110	42	47	<0.10	226	1595	118	0.23	<0.05	1.3	24.3	2682	2858	185	7.81	<0.10	0.01	<0.10	0.11	<0.01	<0.05	<0.01	<0.05	<0.05	0.06	<0.001	<0.10	<0.05	0.04	<0.10	0.01			0.068		9.4			
VECA MW-1	11/4/1997	558	109	41	45	<0.10	227	1600	124	0.24	0.16	1.6	23.4	2640	2900	186	7.74	<0.10	0.00	<0.10	0.11	<0.01	<0.05	<0.01	<0.05	<0.05	0.08	<0.001	<0.10	<0.05	0.04	<0.10	<0.01			0.076		10.2			
VECA MW-1	8/31/1998	523	104	41	44	1.0	231	1410	102	0.18	0.06	1.3		2670	2880		7.51		0.00						<0.05		0.06				0.04					0.058		26.0	7.0		
VECA MW-1	8/10/1999	527	127	45	47	<0.10	231	1450	150	0.48	<0.05	1.4		2710	2950		7.69		0.01						<0.05		0.09				0.06					0.079		23.9	8.4		
VECA MW-1	10/16/2006	498	109	35	42	<1	246	1530	58	<0.10	0.13	1.0	24.6	2380	2540	201	7.46	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.14	<0.001	<0.10	<0.05	0.01	<0.10	0.05	<0.03	0.1	0.035		10.1	9.8	73	74
VECA MW-3A	9/20/1996	344	52	39	13	<0.10	226	871	55	<0.10	<0.05	0.9	19.8	1560	1710	185	7.42	<0.10	0.03	<0.10	<0.10	<0.01	<0.05	<0.01	2.89	<0.05	0.67	<0.001	0.10	<0.05	<0.001	<0.10	<0.01			0.184		0.9			
VECA MW-3A	11/19/1996	378	57	41	* 14	<0.10	235	893	58	<0.10	0.10	0.8	19.5	1720	1800	193	7.82	<0.10	0.01	<0.10	<0.10	<0.01	<0.05	<0.01	0.49	<0.05	0.69	<0.001	0.11	<0.05	<0.001	<0.10	<0.01			0.144 [4]		2.4			
VECA MW-3A	3/6/1997	419	58	37	13	<0.10	227	995	67	<0.10	0.09	0.9	19.9	1580	1870	186	7.55	<0.10	0.02	<0.10	<0.10	<0.01	<0.05	<0.01	1.04	<0.05	0.78	<0.001	<0.10	<0.05	<0.001	<0.10	0.02			0.135		1.2			
VECA MW-3A	4/28/1997	431	65	44	16	<0.10	248	1070	74	<0.10	0.08	0.8	20.1	1857	2131	203	7.68	<0.10	0.08	<0.10	<0.10	<0.01	<0.05	<0.01	2.98	<0.05	0.78	<0.001	0.15	<0.05	<0.001	<0.10	<0.01			0.202		1.6			
VECA MW-3A	10/29/1997	440	62	42	15	<0.10	254	1060	71	<0.10	0.01	0.9	19.3	1950	2190	208	7.71	<0.10	0.03	<0.10	<0.10	<0.01	<0.05	<0.01	0.79	<0.05	0.84	<0.001	0.17	<0.05	<0.001	<0.10	<0.01			0.209		0.7			
VECA MW-3A	9/1/1998	365	65	44	15	1.0	246	1010	60	<0.10	0.16	0.8		1920	2200		7.75		0.08						6.30						0.00					0.158		2.2	5.1		
VECA MW-3A	8/10/1999	532	129	44	46	<0.10	233	1440	150	0.47	<0.05	1.4		2710	2960		7.78		<0.001						<0.05						0.06					0.081		1.1	6.3		
VECA MW-3A	10/31/2006	521	94	55	18	<1	276	1460	104	<0.10	0.30	0.8	20.0	2490	2830	226	7.07	<0.10	0.02	<0.10	<0.10	<0.01	<0.05	<0.01	4.38	<0.05	1.16	<0.001	0.10	<0.05	0.00	<0.10	0.03	13.4	1.2	0.153		17.5	8.0	146	91
VECA MW-3A	10/14/2011	532	90	61	18	<5	261	1380	100	<0.1	<0.05	1.0	25.9	2400	2660		7.40	<0.10	0.07	<0.10	<0.10	<0.01	<0.05	<0.01	12.10	<0.05	1.15	<0.001	<0.10	<0.05	<0.001	<0.10	0.03	28.9	1.2	0.173		16.0	10.0	228	115
PIXMP97-1	10/17/1997	180	32	39	14	<0.10	210	456	6	<0.10	0.06	0.6	19.3	852	1160	172	7.94	<0.10		<0.10	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.20	<0.001	<0.10	<0.05	<0.001	<0.10	0.02			0.012		647.0			
PIXMP97-1	1/27/1998	178	32	39	14	1.0	211	458	6	<0.10	0.12	0.6	19.6	864	1120	173	7.97	<0.10		<0.10	<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.20	<0.001	<0.10	<0.05	<0.001	0.10	<0.01			0.013		663.0			
PIXMP97-1	6/23/1998	186	33	37	13	<0.10	212	468	7	<0.10	0.09	0.6	19.1	870	1040	174	7.89	<0.10		<0.10	<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.20	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.012		669.0			
PIXMP97-1	7/13/1998	182	33	39	13	1.0	210	453	5	<0.10	0.08	0.6	18.8	891	1140	173	7.95	<0.10		<0.10	<0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.21	<0.001	<0.10	<0.05	<0.001	<0.10	0.01			0.012		639.0			
PIXMP97-1	8/3/1999	173	32	38	14	<0.10	206	453	7	<0.10	0.08	0.6	18.0	859	1120		8.00	<0.10		<0.10	<0.10				0.15		0.19				<0.001					0.012		690.0	8.9		
PIXMP97-1	10/16/2006	172	32	37	13	<1	191	461	5	<0.10	0.12	0.6	19.2	738	998	157	7.74	<0.10	<0.001	<0.10	<0.10	<0.01	<0.05	<0.01	0.08	<0.05	0.20	<0.001	<0.10	<0.05	<0.001	<0.10	0.01	1.3	0.2	0.010		562.0	2.2	614	220
PIXMP97-1	10/13/2011	160	29	39	13	<5	191	432	5	<0.1	0.06	0.7	20.7	807	1070		7.87	<0.10	<0.001	<0.10	0.10	<0.01	<0.05	<0.01	0.10	<0.05	0.19	<0.001	<0.10	<0.05	<0.001	<0.10	0.02	0.2	0.2	0.014		584.0	5.1	2180	507
PIXMO97-1	10/19/1997	179	31	39	15	<0.10	194	442	10	<0.10	0.14	0.7	18.7	824	1130	159	8.00	<0.10	0.01	<0.10	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.20	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			<.0003		5.5			
PIXMO97-1	1/28/1998	178	31	38	14	1.0	206	451	8	<0.10	0.13	0.6	19.2	826	1100	169	7.99	<0.10	0.01	<0.10	<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.22	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		9.9			
PIXMO97-1	1/28/1998 (D)	177	31	39	14	1.0	204	455	8	<0.10	0.13	0.6	19.1	833	1100	167	8.05	<0.10	0.01	<0.10	<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.22	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		7.4			
PIXMO97-1	6/22/1998	157	29	38	13	<0.10	209	421	7	0.22	0.09	0.6	17.7	840	1010	171	7.85	<0.10	0.01	<0.10	0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.21	<0.001	<0.10	<0.05	<0.001	<0.10	0.01			0.001		5.4			
PIXMO97-1	6/22/1998 (D)	164	29	39	14	<0.10	206	426	8	<0.10	0.08	0.6	18.2	843	1020	169	7.89	<0.10	0.01	<0.10	0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.20	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.001		7.1			
PIXMO97-1	7/13/1998	178	32	39	13	1.0	209	442	6	<0.10	0.10	0.6	18.5	874	1120	171	7.97	<0.10	0.01	<0.10	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.22	<0.001	<0.10	<0.05	<0.001	<0.10	0.01			0.001		86.5			
PIXMO97-1	8/3/1999	171	31	38	14	<1	209	450	7	<0.10	0.01	0.7		851	1120		7.81	<0.10							0.23		0.22				<0.001					0.001		23.3	6.7		
PIXMO97-1	10/16/2006	173	32	37	13	<1	200	469	7	<.10	0.12	0.7	19.0	748	1010	164	7.73		0.01		0.10				0.08		0.23					0.02	0.1	0.2	0.000		4.0	1.8	11	18
PIXMO97-1	10/13/2011	163	30	38	14	<5	196	448	8	<0.1	0.06	0.8	20.6	814	1080		7.76	<0.10	0.01	<0.10	0.10	<0.01	<0.05	<0.01	0.11	<0.05	0.23	<0.001	<0.10	<0.05	<0.001	<0.10	0.04	0.3	0.3	0.001		4.5	5.6	15	21
PIXMU97-1	10/18/1997	179	42	53	24	<0.10	221	513	18	<0.10	0.15	0.4	18.6	962	1310	181	8.12	<0.10	0.00	<0.10	0.11	<0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.004		19.1			
PIXMU97-1	1/28/1998	181	38	54	25	1.0	212	526	19	<0.10	0.17	0.4	17.6	949	1250	174	8.23	<0.10	0.00	<0.10	<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.02	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.004		15.3			
PIXMU97-1	6/22/1998	164	39	50	19	<0.10	216	485	10	<0.10	0.13	0.4	16.6	954	1140	177	7.79	<0.10	0.00	<0.10	<0.10	0.01	<0.05	<0.01	<0.05	<0.05	0.03	<0.001	<0.10	<0.05	<0.001	<0.10	0.04			0.003		18.9			
PIXMU97-1	7/14/1998	176	41	50	17	1.0	221	513	8	<0.10	0.12	0.4	17.9	978	1260	181	8.02	<0.10	0.00	<0.10	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.04	<0.001	<0.10	<0.05	<0.001	<0.10	<0.01			0.003		41.0			
PIXMU97-1	8/10/1999	179	42	52	18	<1.0	222	494	12	<0.10	0.01	0.4		924	1240		7.80		<0.001						<0.05		0.03				<0.001					0.002		35.6	5.8		
PIXMU97-1	10/30/2006	178	41	47	16	<1	222	511	6	<0.10	0.13	0.4	18.4	930	1250	182	7.45	<0.10	0.00	<0.10	0.10	<0.01	<0.05	<0.01	<0.05	<0.05	0.05	<0.001	<0.10	<0.05	<0.001	<0.10	0.02	0.1		0.003		15.3	5.1	55	42
PIXMU97-1	10/14/2011	168	37	47	17	<5	189	496	11	0.10	0.09	0.5	19.6	886	1170		7.63	<0.10	<0.001	<0.10	0.10	<0.01	<0.05	<0.01	0.11	<0.05	0.04	<0.001	<0.10	<0.05	<0.001	<0.10	0.02	0.4	0.0	0.002		22.0	4.2	86	40
MW-1	5/25/1989	509	104	38	39	0.0	232	1589	13	0.34	0.10	<0.7		2542	2636	190	7.20	0.11	0.07	<0.1	<0.1	<0.01	<0.05	<0.01	0.14	<0.05	0.36	<0.001	<0.1	<0.05	0.00	<0.1	0.05			0.060		23.0			
MW-2	5/18/1989	374	62	25	13	0.0	320	919	10	0.13	0.24	0.8		1550	1784	262	6.90	0.13	0.05	<0.1	<0.1	<0.01	<0.05	<0.01	13.00	<0.05	1.90	<0.001	<0.1	0.12	0.01	<0.1	0.04			0.090		22.0			
MW-2	6/26/1989	418	81	19	11	0.0	300	1113	12	0.02	0.11	0.5		1875	2267	240	6.80	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	5.80	<0.05	1.60	<0.001	<0.1	<0.05	<0.001	<0.1	0.02								
MW-3A	5/17/1989	248	37	78	13	0.0	188	744	8	0.11	0.15	0.9		1248	1617	1545	7.30	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	3.20	<0.05	0.75	<0.001	<0.1	<0.05	<0.001	<0.1	0.07			0.180		13.0			
MW-3A	6/26/1989	240	31	62	11	0.0	201	683	10	0.02	0.08	0.9		1124	1507	165	7.20	<0.1	0.01	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<0.05	0.48	<0.001	<0.1	<0.05	<0.001	<0.1	0.03			0.150		16.0			

Table 3.4-15 Groundwater Rights within 2 km of Gas Hills

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P215.0W	08/24/1959	Incomplete	Water Well #3	IND	033N	089W	18	SW1/4SW1/4	250	1668	20	-107.55782	42.82682
P67075.0W	02/16/1984		Guard Well 3B	IND; MIS	033N	089W	15	SE1/4SW1/4	7	159	114.1	-107.494	42.82656
P67076.0W	02/16/1984		Guard Well 3C	IND; MIS	033N	089W	15	SE1/4SW1/4	10	159	105	-107.494	42.82656
P104730.0W	11/25/1996	Incomplete	Aliob #2	MIS	033N	089W	15	SE1/4NE1/4	45	537	270	-107.48437	42.83367
P175221.0W	06/26/2006		Gunnel #1	MIS	033N	090W	25	NE1/4NW1/4	350	1495	108	-107.57221	42.80875
P179593.0W	02/14/2007		Gas Hills Water Well-1	MIS	033N	089W	32	SE1/4NW1/4	80			-107.53292	42.7906
P184398.0W	01/07/2008	Complete	Carol Well # 1	MIS	033N	089W	28	NE1/4SW1/4	50	400	200	-107.512689	42.803047
P38624.0W	07/01/1977		Peach #6	MIS	032N	090W	03	SE1/4SE1/4	0	460	309	-107.58526	42.7693
P44612.0W	11/25/1977	Incomplete	Carol Well #1	MIS	033N	089W	28	NE1/4SW1/4	50	400	200	-107.51346	42.80136
P82562.0W	04/27/1990		MWC-33	MIS	033N	089W	15	NE1/4NW1/4	2	210	121.81	-107.49405	42.83744
P82563.0W	04/27/1990		MWC-34	MIS	033N	089W	15	NE1/4NW1/4	3	200	157.06	-107.49405	42.83744
P82564.0W	04/27/1990		MWC-35	MIS	033N	089W	10	SE1/4SW1/4	5	190	148.03	-107.49404	42.84107
P82565.0W	04/27/1990		MWC-36	MIS	033N	089W	10	SE1/4SW1/4	12	200	143.41	-107.49404	42.84107
P83269.0W	08/15/1990		MWC-42	MIS	033N	089W	10	SE1/4SW1/4	10	240	138	-107.49404	42.84107
P84751.0W	03/18/1991		MWC-45	MIS	033N	089W	15	NW1/4NE1/4	15	240	195.24	-107.48922	42.83737
P84753.0W	03/18/1991		MWC-47	MIS	033N	089W	15	NW1/4NE1/4	15	255	188	-107.48922	42.83737
P84754.0W	03/18/1991		MWC-48	MIS	033N	089W	15	NW1/4NE1/4	15	245	177.92	-107.48922	42.83737
P84755.0W	03/18/1991		MWC-49	MIS	033N	089W	15	NW1/4NE1/4	15	240	156.35	-107.48922	42.83737
P87214.0W	12/24/1991	Incomplete	Area 4 Reclamation Reservoir	MIS	033N	090W	35	SE1/4SE1/4	12	460	270	-107.58219	42.78501
P91278.0W	03/19/1993		MWC 56	MIS	033N	089W	15	NE1/4NW1/4	5	261	171	-107.49405	42.83744
P91279.0W	03/19/1993		MWC 57	MIS	033N	089W	15	NE1/4NW1/4	6	252	165	-107.49405	42.83744
P91280.0W	03/19/1993		MWC 58	MIS	033N	089W	10	SE1/4SW1/4	6	250	154	-107.49404	42.84107
P91281.0W	03/19/1993		MWC 59	MIS	033N	089W	10	SE1/4SW1/4	6	250	147	-107.49404	42.84107
P91282.0W	03/19/1993		MWC 60	MIS	033N	089W	15	SE1/4SW1/4	4	160	111	-107.494	42.82656
P91283.0W	03/19/1993		MWC 61	MIS	033N	089W	15	SE1/4SW1/4	3.5	150	116	-107.494	42.82656
P91284.0W	03/19/1993		MWC 62	MIS	033N	089W	15	SE1/4SW1/4	4	165	107	-107.494	42.82656
P95290.0W	04/26/1994	Fully Adjudicated	Buss I Reservoir	MIS	033N	089W	27	SE1/4NW1/4	2000	210	171	-107.493869	42.8049
P103584.0W	08/29/1996	Complete	BS 96 M-1	MON	033N	089W	32	NE1/4NW1/4	0	305	194.1	-107.53293	42.79425
P103585.0W	08/29/1996	Complete	Peach M1	MON	032N	090W	03	SW1/4NE1/4	0	320	214.2	-107.59168	42.77659
P103586.0W	08/29/1996	Complete	WSL96M-1	MON	033N	089W	28	NE1/4SE1/4	0	365	175.25	-107.50366	42.80128
P103587.0W	08/29/1996	Complete	MU 96 M-2	MON	033N	089W	31	NE1/4SW1/4	0	475	256.7	-107.55259	42.78704
P103588.0W	08/29/1996	Complete	MU 96 M-1	MON	033N	089W	31	NE1/4SW1/4	0	465	244.5	-107.55259	42.78704
P103589.0W	08/29/1996	Complete	Peach M-2	MON	032N	090W	03	NE1/4SE1/4	0	305	270.9	-107.58529	42.77295
P103590.0W	08/29/1996	Complete	Peach MP-1	MON	032N	090W	03	NE1/4SE1/4	0	310	248.9	-107.58529	42.77295
P103591.0W	08/29/1996	Complete	WSL96MP1	MON	033N	089W	28	NW1/4SE1/4	0	275	148.25	-107.50856	42.80133
P104183.0W	10/15/1996		MW 75	MON	033N	089W	14	NE1/4SW1/4	0	205	120.93	-107.47455	42.83006
P104185.0W	10/15/1996	Complete	MW 77	MON	033N	089W	09	SW1/4SE1/4	0	279	231.01	-107.5087	42.84119
P104391.0W	10/30/1996	Complete	Peach MP-2	MON	032N	090W	03	NE1/4SE1/4	0	340	242.05	-107.58529	42.77295
P105492.0W	04/11/1997	Complete	MW 70A	MON	033N	089W	10	SW1/4SW1/4	0	151	141	-107.49889	42.84115
P105493.0W	04/11/1997		MW 70B	MON	033N	089W	10	SW1/4SW1/4	0	265	138	-107.49889	42.84115
P105494.0W	04/11/1997		MW 71A	MON	033N	089W	16	NE1/4NE1/4	0	237	224	-107.50376	42.83756
P105495.0W	04/11/1997	Complete	MW 71B	MON	033N	089W	16	NE1/4NE1/4	0	329	223	-107.50376	42.83756
P105496.0W	04/11/1997	Complete	MW 72	MON	033N	089W	22	NW1/4NW1/4	0	85	56	-107.49882	42.82301
P105497.0W	04/11/1997		MW 73	MON	033N	089W	22	NE1/4NW1/4	0	153	104	-107.49398	42.82294
P105498.0W	04/11/1997		MW 74	MON	033N	089W	22	NW1/4NW1/4	0	60	21	-107.49882	42.82301
P106686.0W	07/01/1997	Complete	PIX MU 97-1	MON	033N	089W	22	NE1/4SW1/4	0	245	90	-107.49391	42.81574

Table 3.4-15 Groundwater Rights within 2 km of Gas Hills

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P107839.0W	10/06/1997	Complete	MUMP 97-1	MON	033N	089W	31	NE1/4SE1/4	0	440	237	-107.54272	42.78699
P108001.0W	11/04/1997		MW78	MON	033N	089W	15	SE1/4SW1/4	0	150	111.45	-107.494	42.82656
P108002.0W	11/04/1997		MW79	MON	033N	089W	15	SE1/4SW1/4	0	150	118.83	-107.494	42.82656
P108003.0W	11/04/1997		MW80	MON	033N	089W	15	SE1/4SW1/4	0	155	117.48	-107.494	42.82656
P108004.0W	11/04/1997		MW81	MON	033N	089W	10	SW1/4SW1/4	0	240	171	-107.49889	42.84115
P112329.0W	10/08/1998	Complete	BSPW-1	MON	033N	089W	32	SE1/4NW1/4	0	425	257.4	-107.53292	42.7906
P112330.0W	10/08/1998	Complete	BSMU-1	MON	033N	089W	32	NE1/4NW1/4	0	485	266.9	-107.53293	42.79425
P112331.0W	10/08/1998	Complete	BSMP-1	MON	033N	089W	32	NE1/4NW1/4	0	376	212	-107.53293	42.79425
P112332.0W	10/08/1998	Complete	BSMP-2	MON	033N	089W	32	NE1/4NW1/4	0	410	230	-107.53293	42.79425
P112333.0W	10/08/1998	Complete	BSMP-3	MON	033N	089W	32	NE1/4NW1/4	0	372	221	-107.53293	42.79425
P112334.0W	10/08/1998	Complete	MO-3	MON	032N	090W	02	NW1/4NE1/4	0	331	257.3	-107.57077	42.7801
P112335.0W	10/08/1998	Complete	M-3C	MON	032N	090W	02	SW1/4NE1/4	0	380	355	-107.57071	42.77675
P112336.0W	10/08/1998	Complete	M-4	MON	032N	090W	02	NW1/4NE1/4	0	382	300	-107.57077	42.7801
P144110.0W	04/26/2002	Complete	MW82	MON	033N	089W	22	NW1/4NW1/4	0	115	86	-107.49882	42.82301
P182078.0W	07/06/2007		S1-GV-M-07	MON	033N	090W	27	SW1/4SE1/4	0			-107.60687	42.79772
P194061.0W	10/15/2010	Incomplete	RHS-1-M-10	MON	033N	089W	08	SW1/4SE1/4				-107.526136	42.840143
P31496.0W	11/12/1975	Complete	BS12-1025P	MON	033N	089W	32	SW1/4NE1/4	0	777	345	-107.52804	42.79059
P31497.0W	11/12/1975	Complete	BS12-1026P	MON	033N	089W	32	SW1/4NE1/4	0	640	345	-107.52804	42.79059
P31498.0W	11/12/1975	Complete	BS12-1027P	MON	033N	089W	32	SW1/4NE1/4	0	565	325	-107.52804	42.79059
P31499.0W	11/12/1975	Complete	BS12-1028P	MON	033N	089W	32	NW1/4SE1/4	0	827	440	-107.52803	42.78696
P31500.0W	11/12/1975	Complete	BS12-1029P	MON	033N	089W	32	NW1/4SE1/4	0	735	440	-107.52803	42.78696
P31501.0W	11/12/1975	Complete	BS12-1030P	MON	033N	089W	32	NW1/4SE1/4	0	640	435	-107.52803	42.78696
P38619.0W	07/01/1977	Complete	Peach #1	MON	032N	090W	03	NE1/4SE1/4	0	446.4	287	-107.58529	42.77295
P38620.0W	07/01/1977	Complete	Peach #2	MON	032N	090W	03	NE1/4SE1/4	0	240	191	-107.58529	42.77295
P38621.0W	07/01/1977	Complete	Peach #3	MON	032N	090W	03	NE1/4SE1/4	0	400	245	-107.58529	42.77295
P38622.0W	07/01/1977	Complete	Peach #4	MON	032N	090W	03	NE1/4SE1/4	0	290	116	-107.58529	42.77295
P38623.0W	07/01/1977	Complete	Peach #5	MON	032N	090W	03	NE1/4SE1/4	0	420	290	-107.58529	42.77295
P38625.0W	07/01/1977	Complete	Peach #7	MON	032N	090W	03	SE1/4SE1/4	0	310	109	-107.58526	42.7693
P38626.0W	07/01/1977	Complete	Peach #8	MON	032N	090W	10	NW1/4NE1/4	0	420	133.3	-107.58906	42.76653
P38627.0W	07/01/1977	Complete	Peach #9	MON	032N	090W	03	NE1/4NE1/4	0	400	294	-107.58534	42.7804
P40467.0W	08/05/1977	Complete	RHW-1	MON	033N	089W	09	SE1/4SW1/4	0	160	154	-107.51362	42.84118
P41022.0W	11/16/1977	Complete	RHW-3	MON	033N	089W	09	SE1/4SE1/4	0	310	257	-107.50378	42.84119
P41023.0W	11/16/1977	Complete	RHW-5	MON	033N	089W	09	SW1/4SW1/4	0	180	0	-107.51854	42.84117
P45237.0W	09/05/1978	Complete	Peach Piezometer A	MON	032N	090W	11	NW1/4SW1/4	0	452	340	-107.58024	42.75859
P45238.0W	09/05/1978	Complete	Peach Piezometer B	MON	032N	090W	03	SW1/4NW1/4	0	738	240	-107.6002	42.77659
P45239.0W	09/05/1978	Complete	Peach Piezometer C	MON	032N	090W	03	SW1/4SE1/4	0	420	306	-107.58912	42.76928
P45240.0W	09/05/1978	Complete	Peach Piezometer D	MON	032N	090W	10	NW1/4NE1/4	0	540	415.21	-107.58906	42.76653
P45241.0W	09/05/1978	Complete	Peach Piezometer E	MON	032N	090W	02	SW1/4SE1/4	0	414	32	-107.57057	42.76953
P45242.0W	09/05/1978		Peach Piezometer G	MON	032N	090W	10	NW1/4SE1/4	0	691	507	-107.59014	42.75857
P45348.0W	10/02/1978	Complete		MON	032N	090W	03	SW1/4NW1/4	0	400	45	-107.6002	42.77659
P45368.0W	09/26/1978	Complete	Monitor Well GW 7	MON	033N	089W	27	NE1/4SE1/4	0	660	82	-107.48416	42.80125
P45369.0W	09/26/1978	Complete	Monitor Well GW 8	MON	033N	089W	27	NE1/4NE1/4	0	360	98	-107.4842	42.80843
P45370.0W	09/26/1978	Complete	Monitor Well GW 9	MON	033N	089W	28	NE1/4SE1/4	0	325	111	-107.50366	42.80128
P45371.0W	09/26/1978		Monitor Well GW 10	MON	033N	089W	21	SE1/4SE1/4	0	475	153	-107.50368	42.81217
P46773.0W	02/22/1978	Complete	Muskrat P 3	MON	033N	089W	31	SE1/4SW1/4	0	515	194	-107.55263	42.78344
P46774.0W	02/22/1978	Complete	Muskrat P 4	MON	033N	089W	31	NE1/4SW1/4	0	530	244	-107.55259	42.78704

Table 3.4-15 Groundwater Rights within 2 km of Gas Hills

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P46775.0W	02/22/1978	Complete	Muskrat P 2	MON	033N	089W	31	SW1/4SE1/4	0	530	134	-107.54763	42.7834
P46776.0W	02/22/1978	Complete	Muskrat P 1	MON	033N	089W	31	NW1/4SE1/4	0	440	201	-107.54764	42.78701
P67146.0W	04/23/1984	Complete	MW1	MON	033N	089W	10	SW1/4SE1/4	0	79	58.24	-107.48923	42.84099
P67147.0W	04/23/1984		MW2	MON	033N	089W	10	SW1/4SW1/4	0	170	125	-107.49889	42.84115
P67148.0W	04/23/1984		MW4	MON	033N	089W	10	SW1/4SE1/4	0	140	82	-107.48923	42.84099
P67149.0W	04/23/1984		MW6	MON	033N	089W	15	NW1/4SE1/4	0	220	162	-107.48918	42.83011
P67150.0W	04/23/1984		MW7	MON	033N	089W	15	NE1/4SW1/4	0	220	145	-107.49402	42.83018
P67151.0W	04/23/1984		MW8	MON	033N	089W	15	SW1/4NE1/4	0	159	57.15	-107.4892	42.83374
P67152.0W	04/23/1984		MW10	MON	033N	089W	15	SW1/4NE1/4	0	160	95	-107.4892	42.83374
P67156.0W	04/23/1984		MW19	MON	033N	089W	10	SE1/4SE1/4	0	110	67	-107.4844	42.84091
P67157.0W	04/23/1984		MW20	MON	033N	089W	15	NE1/4NE1/4	0	90	65	-107.48439	42.83729
P67158.0W	04/23/1984		MW21	MON	033N	089W	10	SW1/4SW1/4	0	159	-7.00	-107.49889	42.84115
P67160.0W	04/23/1984		GW1	MON	033N	089W	15	SE1/4SW1/4	0	160	105	-107.494	42.82656
P67161.0W	04/23/1984		GW2	MON	033N	089W	15	SE1/4SW1/4	0	158	114	-107.494	42.82656
P67162.0W	04/23/1984		GW3	MON	033N	089W	15	SE1/4SW1/4	0	160	107	-107.494	42.82656
P67163.0W	04/23/1984		GW4	MON	033N	089W	22	NE1/4NW1/4	0	165	112.42	-107.49398	42.82294
P67164.0W	04/23/1984		GW5	MON	033N	089W	15	SW1/4SE1/4	0	160	100	-107.48916	42.82649
P67165.0W	04/23/1984		GW6	MON	033N	089W	22	NW1/4NE1/4	0	121	86.18	-107.48914	42.82288
P67166.0W	04/23/1984	Complete	GW7	MON	033N	089W	15	SE1/4SW1/4	0	190	0.3	-107.494	42.82656
P67167.0W	04/23/1984	Complete	GW8	MON	033N	089W	22	NE1/4NW1/4	0	172	125	-107.49398	42.82294
P67168.0W	04/23/1984		PW1	MON	033N	089W	15	NE1/4SW1/4	0	220	168	-107.49402	42.83018
P67169.0W	04/23/1984		PW2	MON	033N	089W	15	SW1/4SW1/4	0	220	192	-107.49884	42.82663
P67170.0W	04/23/1984		PW3	MON	033N	089W	15	SW1/4SW1/4	0	220	148	-107.49884	42.82663
P67171.0W	04/23/1984	Complete	PW4	MON	033N	089W	22	NE1/4NW1/4	0	230	100	-107.49398	42.82294
P67172.0W	04/23/1984		PW5	MON	033N	089W	22	NE1/4NW1/4	0	160	120.72	-107.49398	42.82294
P67173.0W	04/23/1984		PW6	MON	033N	089W	22	NE1/4NW1/4	0	136	122.39	-107.49398	42.82294
P67174.0W	04/23/1984		PW7	MON	033N	089W	15	SW1/4SE1/4	0	260	-7.00	-107.48916	42.82649
P67175.0W	04/23/1984		EPW1	MON	033N	089W	16	SE1/4SE1/4	0	155	110	-107.50372	42.82667
P67176.0W	04/23/1984		EPW2	MON	033N	089W	22	NW1/4NW1/4	0	115	89	-107.49882	42.82301
P67177.0W	04/23/1984		EPW3	MON	033N	089W	22	NW1/4NW1/4	0	110	70	-107.49882	42.82301
P67178.0W	04/23/1984		DW2	MON	033N	089W	15	SE1/4SW1/4	0	260	140	-107.494	42.82656
P67179.0W	04/23/1984		DW3	MON	033N	089W	15	SW1/4NW1/4	0	228	210	-107.49887	42.83387
P67180.0W	04/23/1984		MW30026	MON	033N	089W	22	NW1/4NW1/4	0	193	77	-107.49882	42.82301
P67181.0W	04/23/1984		RW1	MON	033N	089W	22	NW1/4NW1/4	0	130	87.04	-107.49882	42.82301
P67182.0W	04/23/1984		RW2	MON	033N	089W	22	NW1/4NW1/4	0	120	76	-107.49882	42.82301
P67183.0W	04/23/1984		HW1	MON	033N	089W	15	SW1/4SW1/4	0	267.6	152.35	-107.49884	42.82663
P67184.0W	04/23/1984		HW2	MON	033N	089W	16	NE1/4SE1/4	0	117	104.72	-107.50373	42.83028
P67185.0W	04/23/1984		HW3	MON	033N	089W	15	SW1/4NW1/4	0	135.5	113.34	-107.49887	42.83387
P67186.0W	04/23/1984		HW4	MON	033N	089W	15	SW1/4NW1/4	0	155.4	123.85	-107.49887	42.83387
P67187.0W	04/23/1984		RIM 1	MON	033N	089W	09	SW1/4SW1/4	0	300	179	-107.51854	42.84117
P76332.0W	02/19/1988	Complete	MW25	MON	033N	089W	15	NW1/4NW1/4	0	256	227.5	-107.49888	42.83752
P76334.0W	02/19/1988		MW27	MON	033N	089W	11	SW1/4SW1/4	0	121	41	-107.47955	42.84088
P76996.0W	05/23/1988	Complete	JGW 1	MON	033N	090W	26	SE1/4NE1/4	0	300	136.9	-107.58195	42.80542
P76998.0W	05/23/1988	Complete	JGW 3	MON	033N	090W	26	SW1/4SE1/4	0	200	175.75	-107.58682	42.79933
P77793.0W	08/03/1988	Complete	MW 28	MON	033N	089W	09	SE1/4SE1/4	0	282	178.4	-107.50378	42.84119
P80432.0W	08/04/1989		MW 29	MON	033N	089W	15	NE1/4SW1/4	0	195	188	-107.49402	42.83018

Table 3.4-15 Groundwater Rights within 2 km of Gas Hills

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P80433.0W	08/04/1989		MW 31	MON	033N	089W	15	NE1/4SW1/4	3	180	130.77	-107.49402	42.83018
P80434.0W	08/04/1989		MW 32	MON	033N	089W	15	SE1/4SW1/4	0	160	102	-107.494	42.82656
P80484.0W	08/14/1989	Complete	LA 1	MON	033N	089W	14	SW1/4NW1/4	0	60	43	-107.4795	42.83365
P80485.0W	08/14/1989	Complete	LA 2	MON	033N	089W	14	SW1/4SW1/4	0	165	128.5	-107.47943	42.8264
P80486.0W	08/14/1989	Complete	LA 3	MON	033N	089W	15	SE1/4SE1/4	0	195	183	-107.48433	42.82642
P80487.0W	08/14/1989		LA 4	MON	033N	089W	14	SW1/4SW1/4	0	184.5	145	-107.47943	42.8264
P80488.0W	08/14/1989	Complete	LA 5	MON	033N	089W	22	NW1/4NE1/4	0	128	115	-107.48914	42.82288
P80489.0W	08/14/1989	Complete	LA 6	MON	033N	089W	22	NE1/4NE1/4	0			-107.4843	42.82281
P80490.0W	08/14/1989	Complete	LA 7	MON	033N	089W	23	NW1/4NW1/4	0	105	71.5	-107.47941	42.82279
P82566.0W	04/27/1990		MWI-37	MON	033N	089W	10	SW1/4SW1/4	0	240	222.9	-107.49889	42.84115
P82567.0W	04/27/1990		MWI-38	MON	033N	089W	10	SW1/4SW1/4	0	230	195.88	-107.49889	42.84115
P82568.0W	04/27/1990		MWI-39	MON	033N	089W	10	SW1/4SW1/4	0	253	222	-107.49889	42.84115
P82823.0W	06/28/1990	Complete	Muskrat-MO	MON	033N	089W	31	NE1/4SW1/4	0	381	198	-107.55259	42.78704
P82824.0W	06/28/1990	Complete	Muskrat Pump	MON	033N	089W	31	NW1/4SE1/4	0	455	266	-107.54764	42.78701
P82825.0W	06/28/1990	Complete	Muskrat MP	MON	033N	089W	31	NW1/4SE1/4	0	453	249	-107.54764	42.78701
P84648.0W	03/18/1991		MWI 43	MON	033N	089W	15	NW1/4NW1/4	0	240	194.8	-107.49888	42.83752
P84649.0W	03/18/1991		MWI-44	MON	033N	089W	10	SW1/4SW1/4	0	240	169.22	-107.49889	42.84115
P84650.0W	03/18/1991		MWI-50	MON	033N	089W	15	NE1/4NE1/4	0	240	171	-107.48439	42.83729
P84651.0W	03/18/1991		MWI-51	MON	033N	089W	15	NE1/4NE1/4	0	240	159	-107.48439	42.83729
P84652.0W	03/18/1991		MWI-52	MON	033N	089W	15	NE1/4NE1/4	0	245	144	-107.48439	42.83729
P85345.0W	06/10/1991	Complete	West Muskrat MO-1	MON	032N	090W	02	NW1/4NE1/4	0	345	257.3	-107.57077	42.7801
P85346.0W	06/10/1991		West Muskrat P-1	MON	032N	090W	02	SW1/4NE1/4	0	400	327.15	-107.57071	42.77675
P85347.0W	06/10/1991		West Muskrat M-2	MON	032N	090W	02	SW1/4NE1/4	0	400	331.95	-107.57071	42.77675
P85348.0W	06/10/1991		West Muskrat MO-2	MON	032N	090W	02	SW1/4NE1/4	0	325	272	-107.57071	42.77675
P85349.0W	06/10/1991	Complete	West Muskrat MU-1	MON	032N	090W	02	SW1/4NE1/4	0	614	427.6	-107.57071	42.77675
P85350.0W	06/10/1991	Complete	West Muskrat M-1	MON	032N	090W	02	NW1/4NE1/4	0	400	300.35	-107.57077	42.7801
P85351.0W	06/10/1991	Complete	West Muskrat M-2	MON	032N	090W	02	SW1/4NE1/4	0	390	327.1	-107.57071	42.77675
P91082.0W	03/19/1993	Complete	MW-64	MON	033N	089W	10	SW1/4SW1/4	0	260	160	-107.49889	42.84115
P92914.0W	10/01/1993	Complete	PRI #1	MON	033N	089W	28	SE1/4NE1/4	0	275	153.58	-107.50367	42.80491
P93567.0W	12/10/1993	Complete	LA-8	MON	033N	089W	22	NE1/4NE1/4	0	163	72.9	-107.4843	42.82281
P182674.0W	07/09/2007		Cross MeadowS 12-1	STK	033N	089W	12	SW1/4SW1/4	25			-107.45986	42.84099
P44457.0W	08/02/1978	Fully Adjudicated	Cameron Springs #1	STK	032N	090W	11	NE1/4NE1/4	3	4	0	-107.56564	42.76602
P46378.0W	08/14/1978	Complete	Sage Hen #1	STK	033N	089W	26	SE1/4SE1/4	1	5	-4.00	-107.46452	42.79767
P46389.0W	08/14/1978	Fully Adjudicated	Iron Spring #1	STK	033N	089W	08	SE1/4SW1/4	3	3	-4.00	-107.53338	42.84123
P49333.0W	08/06/1979	Complete	Barrell Springs #1	STK	032N	089W	08	SW1/4SW1/4	1	4	-4.00	-107.52333	42.75531
P71766.0W	01/17/1986	Complete	Beaver Rim #2	STK	033N	089W	27	NE1/4NE1/4	15	10	-4.00	-107.4842	42.80843
P89649.0W	11/01/1982	Fully Adjudicated	Willow Springs Well	STK	033N	090W	34	SW1/4SW1/4	5	190	168	-107.6162	42.78359
P196429.0W	08/09/2011	Incomplete	Gas Hills DDW #1	TST	033N	089W	29	SW1/4NE1/4	0			-107.527925	42.8051
P196430.0W	08/10/2011	Incomplete	Gas Hills DDW #2	TST	032N	090W	03	NE1/4NW1/4	0			-107.594844	42.779986
Water rights information collected from Wyoming State Engineer e-permit database													

Table 3.4-16 Surface Water Rights within 2 km of Ruth Remote Satellite

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Source Name	Longitude	Latitude
P15536.0S	02/13/2004	Complete	Moore 12-12-4277 Stock Reservoir	STO	042N	077W	12	SW1/4NW1/4	Teamster Draw	-106.06688	43.627467
P15538.0S	02/13/2004	Complete	Moore 23-10-4277 Stock Reservoir	STO	042N	077W	10	NE1/4SW1/4	Hoffa Draw	-106.09877	43.623675
P15539.0S	02/13/2004	Complete	Moore 34-14-4277 Stock Reservoir	STO	042N	077W	14	SW1/4SE1/4	Lone Duck Draw	-106.07519	43.607472
P15540.0S	02/13/2004	Complete	Moore 42-21-4277 Stock Reservoir	STO	042N	077W	21	SE1/4NE1/4	Woody Gulch	-106.11003	43.597806
P15832.0S	08/20/2004	Complete	Moore 41-14-4277 Stock Reservoir	STO	042N	077W	14	NE1/4NE1/4	Lone Tree Draw	-106.07031	43.615861
P15879.0S	02/10/2004	Unadjudicated	Moore 34-15-4277 Stock Reservoir	STO	042N	077W	15	SW1/4SE1/4	Single Draw	-106.08942	43.604333
P15884.0S	03/02/2004	Complete	Moore 11-22-4277 Stock Reservoir	STO	042N	077W	22	NE1/4NW1/4	Lone Tree Draw	-106.10239	43.601889
P15902.0S	03/02/2004	Complete	BLM 23-22-4277 Stock Reservoir	STO	042N	077W	22	NE1/4SW1/4	Tree House Draw	-106.10075	43.593194
P15910.0S	02/23/2004	Complete	Moore 31-15-4277 B Stock Reservoir	STO	042N	077W	15	NW1/4NE1/4	Teamster Draw	-106.09609	43.616808
P16109.0S	05/17/2004	Complete	BLM 24-27-4277 Stock Reservoir	STO	042N	077W	27	SE1/4SW1/4	Star Draw	-106.09904	43.576933
P16271.0S	04/23/2004	Incomplete	Moore 24-26-4277 Stock Reservoir	STO	042N	077W	26	SE1/4SW1/4	Crawford Draw	-106.07989	43.575333
P16281.0S	02/10/2004	Incomplete	Moore 21-14-4277 Stock Reservoir	STO	042N	077W	14	NE1/4NW1/4	Lone Bark Draw	-106.0815	43.616672
P16287.0S	02/10/2004	Incomplete	Moore 14-15-4277 Stock Reservoir	STO	042N	077W	15	SW1/4SW1/4	Lone Stump Draw	-106.10455	43.604947
P16288.0S	02/10/2004	Incomplete	Moore 44-21-4277 Stock Reservoir	STO	042N	077W	21	SE1/4SE1/4	Lone Leaf Draw	-106.11015	43.589681
P16328.0S	05/17/2004	Incomplete	Moore 23-35-4277 Stock Reservoir	STO	042N	077W	35	NE1/4SW1/4	Crawford Draw	-106.08072	43.566028
P16329.0S	05/17/2004	Complete	Moore 33-26-4277 Stock Reservoir	STO	042N	077W	26	NW1/4SE1/4	Red Carpet Draw	-106.07331	43.579389
P16536.0S	01/20/2005	Complete	Colby Stock Reservoir	STO	042N	077W	13	SE1/4NW1/4	Cheese Draw	-106.06296	43.613883
P16586.0S	01/20/2005	Complete	Iberlin Fork Stock Reservoir	STO	042N	076W	6	SE1/4SW1/4	Mouse Nest Draw	-106.04287	43.637785
P16680.0S	01/20/2005	Complete	Lisa Stock Reservoir	STO	042N	077W	25	SE1/4NW1/4	Fan Draw	-106.06076	43.583989
P16697.0S	01/31/2005	Complete	Mark Stock Reservoir	STO	042N	077W	25	NE1/4SW1/4	Pan Draw	-106.06082	43.580231
P16721.0S	01/31/2005	Incomplete	Gale Stock Reservoir	STO	042N	077W	13	SE1/4SE1/4	Can Draw	-106.05067	43.606961
P16722.0S	01/20/2005	Incomplete	Alex Stock Reservoir	STO	042N	077W	13	SE1/4SE1/4	Oil Draw	-106.05067	43.606961
P16723.0S	01/20/2005	Incomplete	Jamie Stock Reservoir	STO	042N	077W	23	NE1/4SW1/4	Lone Duck Draw	-106.08074	43.594861
P17026.0S	01/20/2005	Incomplete	Tommy Stock Reservoir	STO	042N	077W	23	SE1/4NW1/4	T Draw	-106.08077	43.598569
P17414.0S	10/06/2005	Complete	BLM 22-23-4277 Stock Reservoir	STO	042N	077W	23	SE1/4NW1/4	Lone Duck Draw	-106.07908	43.597611
P17968.0S	04/28/2006	Unadjudicated	Jim Moore #2 Stock Reservoir	STO	042N	077W	11	NW1/4NW1/4	Hoffa Draw	-106.08618	43.63186
P18612.0S	07/13/2007	Complete	T42NR76W7SWSW Stock Reservoir	STO	042N	076W	7	SW1/4SW1/4	Holloway Draw	-106.04463	43.620756
P18636.0S	09/12/2007	Complete	T42NR76W19NWNE Stock Reservoir	STO	042N	076W	19	NW1/4NE1/4	Can Draw	-106.03565	43.603461
P19158.0S	02/11/2009	Complete	14-14-4277 Stock Reservoir	STO	042N	077W	14	SW1/4SW1/4	Lone Tree Draw	-106.08642	43.607278
P19305.0S	04/29/2009	Complete	Enl. Moore 11-22-4277 (P15884S)	STO	042N	077W	22	NE1/4NW1/4	Lone Tree Draw	-106.10239	43.601889
P6490.0R	12/11/1958	Unadjudicated	Shearing Pen Stock Reservoir	STO	042N	077W	26	SW1/4NE1/4	Crawford Draw	-106.07578	43.583703
P8432.0R	04/12/1982	Complete	Ruth ISL Retention Reservoir	IND	042N	077W	14	NE1/4SE1/4	Dry Fork Powder River	-106.06984	43.611208
Water rights information collected from Wyoming State Engineer e-permit database.											

Table 3.4-17 Groundwater Rights within 2 km of Ruth Remote Satellite

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P142688.0W	02/12/2002	Complete	BCU State 43-16-4277	CBM	042N	077W	16	NE1/4SE1/4	20	1505	726	-106.11087	43.60949
P160603.0W	07/09/2004	Complete	Moore Trust Fed 21-26-4277	CBM	042N	077W	26	NE1/4NW1/4	100			-106.08072	43.587461
P160617.0W	07/09/2004		Moore Trust Fed 21-27-4277	CBM	042N	077W	27	NE1/4NW1/4	100			-106.10083	43.58745
P160622.0W	07/09/2004	Incomplete	Moore Trust Fed 41-26-4277	CBM	042N	077W	26	NE1/4NE1/4	100			-106.07069	43.587369
P160623.0W	07/09/2004	Incomplete	Moore Trust Fed 32-26-4277	CBM	042N	077W	26	SW1/4NE1/4	100			-106.07578	43.5837
P160624.0W	07/09/2004		Moore Trust Fed 23-26-4277	CBM	042N	077W	26	NE1/4SW1/4	100			-106.08083	43.5801
P160625.0W	07/09/2004	Incomplete	Moore Trust Fed 12-26-4277	CBM	042N	077W	26	SW1/4NW1/4	100			-106.0858	43.583811
P160626.0W	07/09/2004	Incomplete	Moore Trust Fed 41-25-4277	CBM	042N	077W	25	NE1/4NE1/4	100			-106.05059	43.588161
P160628.0W	07/09/2004	Incomplete	Moore Trust Fed 32-25-4277	CBM	042N	077W	25	SW1/4NE1/4	100			-106.05569	43.584231
P160630.0W	07/09/2004	Incomplete	Moore Trust Fed 21-25-4277	CBM	042N	077W	25	NE1/4NW1/4	100			-106.06066	43.587689
P160631.0W	07/09/2004		Moore Trust Fed 14-25-4277	CBM	042N	077W	25	SW1/4SW1/4	100			-106.06591	43.57634
P160632.0W	07/09/2004	Incomplete	Moore Trust Fed 12-25-4277	CBM	042N	077W	25	SW1/4NW1/4	100			-106.06582	43.58375
P160633.0W	07/09/2004		Moore Land Federal 43-22-4277	CBM	042N	077W	22	NE1/4SE1/4	100			-106.0908	43.5949
P160634.0W	07/09/2004		Moore Land Federal 41-22-4277	CBM	042N	077W	22	NE1/4NE1/4	100			-106.09028	43.602089
P160635.0W	07/09/2004		Moore Land Federal 34-22-4277	CBM	042N	077W	22	SW1/4SE1/4	100			-106.09544	43.591078
P160636.0W	07/09/2004		Moore Land Federal 32-22-4277	CBM	042N	077W	22	SW1/4NE1/4	100			-106.09619	43.598019
P160637.0W	07/09/2004		Moore Land Federal 23-22-4277	CBM	042N	077W	22	NE1/4SW1/4	100			-106.10083	43.59483
P160638.0W	07/09/2004		Moore Land Federal 21-22-4277	CBM	042N	077W	22	NE1/4NW1/4	100			-106.1005	43.602158
P160639.0W	07/09/2004		Moore Land Federal 14-22-4277	CBM	042N	077W	22	SW1/4SW1/4	100			-106.10563	43.591119
P160640.0W	07/09/2004		Moore Land Federal 12-22-4277	CBM	042N	077W	22	SW1/4NW1/4	100			-106.10584	43.598469
P160642.0W	07/09/2004	Complete	Moore Land Federal 43-21-4277	CBM	042N	077W	21	NE1/4SE1/4	100			-106.11103	43.594589
P160643.0W	07/09/2004	Complete	Moore Land Federal 41-21-4277	CBM	042N	077W	21	NE1/4NE1/4	100			-106.11082	43.602119
P160648.0W	07/09/2004	Complete	BCU 43-15-4277	CBM	042N	077W	15	NE1/4SE1/4	11	1391	618	-106.09089	43.60967
P160649.0W	07/09/2004	Complete	BCU 41-15-4277	CBM	042N	077W	15	NE1/4NE1/4	12	1405	652	-106.09094	43.61706
P160650.0W	07/09/2004	Complete	BCU 34-15-4277	CBM	042N	077W	15	SW1/4SE1/4	12	1313	582	-106.09586	43.60594
P160651.0W	07/09/2004	Complete	BCU 32-15-4277	CBM	042N	077W	15	SW1/4NE1/4	11	1438	672	-106.09592	43.61333
P160652.0W	07/09/2004	Complete	BCU 23-15-4277	CBM	042N	077W	15	NE1/4SW1/4	11	1407	541	-106.10088	43.6096
P160654.0W	07/09/2004	Complete	BCU 14-15-4277	CBM	042N	077W	15	SW1/4SW1/4	11	1336	519	-106.10584	43.60587
P160656.0W	07/09/2004	Complete	Moore Land Federal 41-14-4277	CBM	042N	077W	14	NE1/4NE1/4	14	1235	335	-106.07079	43.61708
P160657.0W	07/09/2004	Complete	Moore Land Federal 34-14-4277	CBM	042N	077W	14	SW1/4SE1/4	14	1231	394	-106.0758	43.60596
P160658.0W	07/09/2004	Complete	Moore Land Federal 32-14-4277	CBM	042N	077W	14	SW1/4NE1/4	14	1272	313	-106.07582	43.61337
P160659.0W	07/09/2004	Complete	Moore Land Federal 23-14-4277	CBM	042N	077W	14	NE1/4SW1/4	14	1244	322	-106.08084	43.60968
P160660.0W	07/09/2004	Complete	Moore Land Federal 21-14-4277	CBM	042N	077W	14	NE1/4NW1/4	14	1399	504	-106.08088	43.61708
P160661.0W	07/09/2004	Complete	Moore Land Federal 12-14-4277	CBM	042N	077W	14	SW1/4NW1/4	15	1403	469	-106.0859	43.61338
P160662.0W	07/09/2004	Complete	Federal 14-14-4277	CBM	042N	077W	14	SW1/4SW1/4	14	1248	272	-106.08586	43.60599
P160663.0W	07/09/2004		Moore Land Federal 43-11-4277	CBM	042N	077W	11	NE1/4SE1/4	12	1322	646	-106.07087	43.62451
P160664.0W	07/09/2004	Complete	Moore Land Federal 41-11-4277	CBM	042N	077W	11	NE1/4NE1/4	13	1382	872	-106.07098	43.63194
P160665.0W	07/09/2004	Complete	Moore Land Federal 34-11-4277	CBM	042N	077W	11	SW1/4SE1/4	13	1395	731	-106.07587	43.62079
P160666.0W	07/09/2004	Complete	Moore Land Federal 32-11-4277	CBM	042N	077W	11	SW1/4NE1/4	13	1422	864	-106.07599	43.62821
P160667.0W	07/09/2004	Complete	Moore Land Federal 23-11-4277	CBM	042N	077W	11	NE1/4SW1/4	13	1332	585	-106.08098	43.62449
P160668.0W	07/09/2004	Complete	Moore Land Federal 21-11-4277	CBM	042N	077W	11	NE1/4NW1/4	13	1462	530	-106.08111	43.63189
P160669.0W	07/09/2004	Complete	Moore Land Federal 14-11-4277	CBM	042N	077W	11	SW1/4SW1/4	13	1445	640	-106.08597	43.62078
P160670.0W	07/09/2004	Complete	Moore Land Federal 12-11-4277	CBM	042N	077W	11	SW1/4NW1/4	13	1330	487	-106.08611	43.62817
P161866.0W	08/17/2004	Complete	Moore 12-13-4277	CBM	042N	077W	13	SW1/4NW1/4	45	1290		-106.06575	43.6135

Table 3.4-17 Groundwater Rights within 2 km of Ruth Remote Satellite

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P161867.0W	08/17/2004	Complete	Moore 23-12-4277	CBM	042N	077W	12	NE1/4SW1/4	45	1300		-106.06081	43.62486
P161868.0W	08/17/2004	Complete	Moore 34-12-4277	CBM	042N	077W	12	SW1/4SE1/4	45	1213		-106.05576	43.6214
P163401.0W	10/19/2004		Moore Land 32-35-4277	CBM	042N	077W	35	SW1/4NE1/4	60			-106.07589	43.56916
P165745.0W	02/09/2005	Complete	Moore 14-13-4277	CBM	042N	077W	13	SW1/4SW1/4	45	1176		-106.06574	43.60608
P165746.0W	02/09/2005	Complete	Moore 12-24-4277	CBM	042N	077W	24	SW1/4NW1/4	45	1180		-106.06569	43.59863
P165749.0W	02/09/2005	Complete	Moore 23-24-4277	CBM	042N	077W	24	NE1/4SW1/4	45	1149	0	-106.06064	43.59516
P169643.0W	08/24/2005		WPTU 7S-13	CBM	042N	076W	7	SW1/4SW1/4	25			-106.0458	43.62174
P169646.0W	08/24/2005		WPTU 7S-11	CBM	042N	076W	7	NE1/4SW1/4	25			-106.04087	43.62534
P169682.0W	08/25/2005		WPTU Ranch 7S-15	CBM	042N	076W	7	SW1/4SE1/4	25			-106.03582	43.62167
P172043.0W	12/07/2005	Complete	WPTU 18S-11	CBM	042N	076W	18	NE1/4SW1/4	25			-106.04079	43.610778
P172044.0W	12/07/2005	Complete	WPTU 18S-13	CBM	042N	076W	18	SW1/4SW1/4	25			-106.04573	43.60711
P172045.0W	12/07/2005		WPTU 18S-15	CBM	042N	076W	18	SW1/4SE1/4	25			-106.03568	43.60716
P172055.0W	12/07/2005	Complete	WPTU 7S-3	CBM	042N	076W	7	NE1/4NW1/4	25			-106.04138	43.632631
P172056.0W	12/07/2005		WPTU 7S-5	CBM	042N	076W	7	SW1/4NW1/4	25			-106.04584	43.62905
P172057.0W	12/07/2005		WPTU 7S-7	CBM	042N	076W	7	SW1/4NE1/4	25			-106.03585	43.62888
P172196.0W	11/14/2005		Federal (Moore) 41-13-4277	CBM	042N	077W	13	NE1/4NE1/4	45			-106.05072	43.61797
P172197.0W	11/14/2005		Federal (Moore) 34-13-4277	CBM	042N	077W	13	SW1/4SE1/4	45			-106.05569	43.60666
P172198.0W	11/14/2005		Federal (Moore) 32-13-4277	CBM	042N	077W	13	SW1/4NE1/4	45			-106.05572	43.61403
P172199.0W	11/14/2005		Moore Federal 23-13-4277	CBM	042N	077W	13	NE1/4SW1/4	45			-106.06072	43.61007
P172200.0W	11/14/2005		Moore Federal 21-13-4277	CBM	042N	077W	13	NE1/4NW1/4	45			-106.06074	43.61746
P172201.0W	11/14/2005		Federal (Moore) 43-12-4277	CBM	042N	077W	12	NE1/4SE1/4	45			-106.05077	43.62531
P172202.0W	11/14/2005		Moore 41-12-4277	CBM	042N	077W	12	NE1/4NE1/4	45			-106.05081	43.63265
P172203.0W	11/14/2005		Moore Federal 32-12-4277	CBM	042N	077W	12	SW1/4NE1/4	45			-106.05582	43.62877
P172204.0W	11/14/2005		Moore Federal 21-12-4277	CBM	042N	077W	12	NE1/4NW1/4	45			-106.06089	43.63225
P172205.0W	11/14/2005		Moore Federal 14-12-4277	CBM	042N	077W	12	SW1/4SW1/4	45			-106.06579	43.62092
P172213.0W	11/14/2005		Moore Federal 12-12-4277	CBM	042N	077W	12	SW1/4NW1/4	45			-106.06588	43.628339
P172216.0W	11/14/2005		Moore Federal 34-1-4277	CBM	042N	077W	1	SW1/4SE1/4	45			-106.05586	43.63609
P172220.0W	11/14/2005		Moore Federal 14-1-4277	CBM	042N	077W	1	SW1/4SW1/4	45			-106.0659	43.63576
P172229.0W	11/14/2005		Moore Federal 43-24-4277	CBM	042N	077W	24	NE1/4SE1/4	45			-106.05061	43.59567
P172230.0W	11/14/2005		Federal (Moore) 41-24-4277	CBM	042N	077W	24	NE1/4NE1/4	45			-106.05065	43.60323
P172231.0W	11/14/2005		Moore Federal 34-24-4277	CBM	042N	077W	24	SW1/4SE1/4	45			-106.0556	43.59165
P172232.0W	11/14/2005		Federal(Moore) 32-24-4277	CBM	042N	077W	24	SW1/4NE1/4	45			-106.05565	43.59918
P172235.0W	11/14/2005		Federal (Moore) 43-13-4277	CBM	042N	077W	13	NE1/4SE1/4	45			-106.05069	43.61063
P172330.0W	11/14/2005		Iberlin Federal 14-6-4276	CBM	042N	076W	6	SW1/4SW1/4	45			-106.04588	43.6363
P174890.0W	05/15/2006		Federal 14-23-4277	CBM	042N	077W	23	SW1/4SW1/4	100			-106.08606	43.5914
P174891.0W	05/15/2006		Federal 21-23-4277	CBM	042N	077W	23	NE1/4NW1/4	100			-106.08154	43.6019
P174892.0W	05/15/2006	Complete	Federal 23-23-4277	CBM	042N	077W	23	NE1/4SW1/4	100			-106.07916	43.594739
P174893.0W	05/15/2006		Moore Land Fed 32-23-4277	CBM	042N	077W	23	SW1/4NE1/4	100			-106.07574	43.59854
P174894.0W	05/15/2006		Moore Land Fed 34-23-4277	CBM	042N	077W	23	SW1/4SE1/4	100			-106.07568	43.59112
P174895.0W	05/15/2006	Complete	Moore Land Fed 43-23-4277	CBM	042N	077W	23	NE1/4SE1/4	100			-106.07068	43.5948
P174897.0W	05/15/2006	Incomplete	Federal 14-27-4277	CBM	042N	077W	27	SW1/4SW1/4	100			-106.10585	43.57636
P174898.0W	05/15/2006	Incomplete	Federal 23-27-4277	CBM	042N	077W	27	NE1/4SW1/4	100			-106.10085	43.58008
P174899.0W	05/15/2006		Moore Land Fed 32-27-4277	CBM	042N	077W	27	SW1/4NE1/4	100			-106.09582	43.58379
P174900.0W	05/15/2006		Moore Land Fed 41-27-4277	CBM	042N	077W	27	NE1/4NE1/4	100			-106.09078	43.58751

Table 3.4-17 Groundwater Rights within 2 km of Ruth Remote Satellite

Water Right Number	Priority Date	Water Right Status	Facility Name	Uses	T	R	Sec	Qtr/Qtr	Total Flow	Total Depth (ft)	Static Water Level (ft)	Longitude	Latitude
P176009.0W	07/17/2006		Federal 34-2-4277	CBM	042N	077W	2	SW1/4SE1/4	100			-106.076	43.63563
P187427.0W	05/15/2008	Complete	WPTU 19S-15	CBM	042N	076W	19	SW1/4SE1/4	25			-106.03557	43.591661
P187428.0W	05/15/2008	Complete	WPTU 19S-13	CBM	042N	076W	19	SW1/4SW1/4	25			-106.04568	43.591553
P187429.0W	05/15/2008	Complete	WPTU 19S-11	CBM	042N	076W	19	NE1/4SW1/4	25	1281	296	-106.04064	43.596061
P187431.0W	05/15/2008	Complete	WPYU 19S-7	CBM	042N	076W	19	SW1/4NE1/4	25			-106.03563	43.599214
P187432.0W	05/15/2008	Incomplete	WPTU 19S-5	CBM	042N	076W	18	SW1/4NW1/4	25			-106.0458	43.613961
P187433.0W	05/15/2008	Complete	WPTU 19S-3	CBM	042N	076W	19	NE1/4NW1/4	25	1365	896	-106.04076	43.603239
P192375.0W	01/25/2010	Incomplete	Moore Federal 21-24-4277	CBM	042N	077W	24	NE1/4NW1/4	45			-106.06059	43.602144
P192376.0W	01/25/2010	Incomplete	Moore Federal 14-24-4277	CBM	042N	077W	24	SW1/4SW1/4	45			-106.06565	43.590719
P160627.0W	07/09/2004		Moore Trust Fed 34-25-4277	CBM; MIS	042N	077W	25	SW1/4SE1/4	100			-106.05581	43.57665
P151115.0W	05/05/2003	Complete	1 Ranch 18S-5	CBM; STK	042N	076W	18	SW1/4NW1/4	25	1500	195	-106.04576	43.61443
P151338.0W	05/12/2003	Complete	Moore Land 14-2-4277	CBM; STK	042N	077W	2	SW1/4SW1/4	13	1481	646	-106.08614	43.63556
P151343.0W	05/12/2003	Complete	Moore Land 43-14-4277	CBM; STK	042N	077W	14	NE1/4SE1/4	15	1217	85	-106.07077	43.60966
P151344.0W	05/12/2003	Complete	Moore Land 41-23-4277	CBM; STK	042N	077W	23	NE1/4NE1/4	75			-106.07114	43.601708
P152882.0W	07/25/2003	Complete	BCU Gibson 43-10-4277	CBM; STK	042N	077W	10	NE1/4SE1/4	19	1444	606	-106.09107	43.62444
P152883.0W	07/25/2003	Complete	BCU Gibson 41-10-4277	CBM; STK	042N	077W	10	NE1/4NE1/4	20	1409	606	-106.09121	43.63183
P152884.0W	07/25/2003	Complete	BCU Gibson 34-10-4277	CBM; STK	042N	077W	10	SW1/4SE1/4	18.5	1471	723	-106.096	43.62071
P152885.0W	07/25/2003	Complete	BCU Gibson 32-10-4277	CBM; STK	042N	077W	10	SW1/4NE1/4	20	1578	660	-106.09615	43.6281
P169688.0W	08/25/2005		WPTU 18S-3	CBM; STK	042N	076W	18	NE1/4NW1/4	25			-106.04083	43.61807
P169690.0W	08/25/2005	Complete	WPTU 18S-7	CBM; STK	042N	076W	18	SW1/4NE1/4	25	1477	416	-106.03576	43.614408
P25860.0P	12/31/1941	Complete	UT Windmill	DOM; STK	042N	077W	25	NE1/4SE1/4	1	-1	-6	-106.05062	43.58077
P49731.0W	08/13/1979	Complete	Uranerz 42-77-14-4M-20	MON	042N	077W	14	NE1/4SE1/4	0	561	-6	-106.07077	43.60966
P54187.0W	10/20/1980	Complete	Uranerz 42-77-13-1-M-20	MON	042N	077W	13	SW1/4SW1/4	0	540	-6	-106.06574	43.60608
P54188.0W	10/20/1980	Complete	Uranerz 42-77-14-8-M-20	MON	042N	077W	14	NE1/4SE1/4	0	556	-6	-106.07077	43.60966
P14652.0P	10/31/1964	Complete	Taylor #23-2	STK	042N	076W	6	SE1/4SW1/4	3	275	100	-106.04092	43.6362
P25843.0P	09/12/1951	Complete	Sorry Spring #1	STK	042N	077W	10	SW1/4SE1/4	0.5	5	4	-106.096	43.62071
P25846.0W	12/29/1972	Complete	Mark #1	STK	042N	076W	31	NE1/4NW1/4	3	1000	-6	-106.04061	43.57359
P25850.0P	12/14/1960	Complete	Middle Creek Well	STK	042N	077W	24	NE1/4SW1/4	3	530	-6	-106.06064	43.59516
P25851.0P	12/07/1960	Complete	Buck Pasture Well #1	STK	042N	076W	19	SE1/4SW1/4	2	812	-6	-106.04067	43.59212
P25852.0P	06/01/1953	Complete	Red Rock Shed	STK	042N	077W	14	NE1/4NE1/4	1.5	460	-6	-106.07079	43.61708
P25853.0W	12/29/1972	Complete	Jamie #1	STK	042N	077W	12	NE1/4NW1/4	3	560	-6	-106.06089	43.63225
P25856.0P	12/30/1954	Complete	South Bullwhacker #1	STK	042N	077W	22	NE1/4SW1/4	1	720	-6	-106.10083	43.59483
P25857.0P	07/26/1967	Complete	N Shearing Pens	STK	042N	077W	23	NE1/4SW1/4	7.5	585	6	-106.08074	43.59486
P25858.0P	04/14/1947	Complete	Shearing Pens Well #1	STK	042N	077W	26	NW1/4SE1/4	3	200	-6	-106.07586	43.58004
P63601.0W	04/06/1983	Complete	West Shearing Pens #1	STK	042N	077W	27	NW1/4SE1/4	0.5	1945	-4	-106.09584	43.58012
Water rights information collected from Wyoming State Engineer e-permit database													

Table 3.6-1 AQS Data

	Year	CO	NH_3	NOx	PM_{10}	$PM_{2.5}$	SO_2	VOC	All
Fuel Combustion – Electric Utility	2002	7,309	386	85,236	9,602	7,938	83,415	872	194,758
Fuel Combustion – Industrial	2002	13,922	71	31,180	1,203	482	27,781	1,688	76,326
Fuel Combustion – Other	2002	11,522	9	2,059	2,085	1,466	2,569	3,306	23,017
Chemical and Allied Product Mfg.	2002	290	0	1,359	9,434	8,749	4,814	2,493	27,139
Metals Processing	2002	12	0	804	467	214	8	85	1,591
Petroleum and Related Industries	2002	3,789	0	2,495	558	356	4,021	7,063	18,282
Other Industrial Processes	2002	5,507	303	2,345	18,696	6,690	349	5,995	39,884
Solvent Utilization	2002	0	0	0	0	0	0	4,668	4,668
Storage and Transport	2002	14	0	5	1,387	379	0	6,442	8,227
Waste Disposal and Recycling	2002	4,901	2	234	890	802	43	740	7,581
Highway Vehicles	2002	246,059	893	32,643	799	606	905	18,072	299,977
Off-Highway Vehicles	2002	58,309	13	35,839	1,555	1,516	2,647	10,657	110,536
Miscellaneous Sources	2002	97,703	20,175	961	391,317	46,587	682	22,468	579,893
	Sum	**449,337**	**21,852**	**195,160**	**437,963**	**75,785**	**127,234**	**84,549**	**1,391,879**

Table 3.9-1 Scenic Quality Inventory and Evaluation for Smith Ranch

Key Factor	Rating Criteria	Score
Landform	Low rolling hills; few interesting landscape features.	1
Vegetation	Very little variety and contrast in the vegetation; vegetation consists mostly of grassy plains, sparse sagebrush, and some trees.	1
Water	Any water sources present are not noticeable.	0
Color	Mostly muted tones; very little contrast or variations in the color.	1
Influence of Adjacent Scenery	Adjacent scenery has little or no influence on the overall visual quality of the project site.	0
Scarcity	All scenic characteristics are interesting within their settings, but are very common within the region.	1
Cultural Modifications	Modifications add very little visual variety to the area and introduce very few discordant elements.	1
	Total Score	**5**

Table 3.9-2 Scenic Quality Inventory and Evaluation for the North Butte Remote Satellite

Key Factor	Rating Criteria	Score
Landform	Low rolling hills and several creek beds; few interesting landscape features.	1
Vegetation	Little contrast or variety in vegetation; no more than a couple of types of vegetation.	1
Water	Flowing or still, but not dominant in the landscape.	3
Color	Some variety in colors and contrast of soil, rock, and vegetation, but not a dominant scenic element.	3
Influence of Adjacent Scenery	Adjacent scenery greatly enhances the visual quality as expressed by the neighboring buttes which are dominant in the landscape.	5
Scarcity	Adjacent butte is distinctive, though somewhat similar to the neighboring buttes. Neighboring buttes are scarce in the region however.	4
Cultural Modifications	Modifications add little or no visual variety to the area and introduce no discordant elements.	0
	Total Score	17

Table 3.9-3 Scenic Quality Inventory and Evaluation for the Gas Hills Remote Satellite

Key Factor	Rating Criteria	Score
Landform	Low rolling hills; primary interesting feature is the Beaver Rim, which is located approximately 16 km (10 miles) from the site boundary.	2
Vegetation	Very little variety and contrast in the vegetation; vegetation consists mostly of grassy plains and sparse sagebrush.	1
Water	Any water sources present are not visible.	0
Color	Mostly muted tones; very little contrast or variations in the color.	1
Influence of Adjacent Scenery	Adjacent scenery moderately enhances the visual quality as expressed by the neighboring Beaver Rim, which is dominate in the landscape.	3
Scarcity	The Beaver Rim is distinctive, yet somewhat similar to other rims off in the distance from the satellite.	3
Cultural Modifications	Modifications add little or no visual variety to the area, and introduce no discordant elements.	0
	Total Score	10

Table 3.9-4 Scenic Quality Inventory and Evaluation for the Ruth Remote Satellite

Key Factor	Rating Criteria	Score
Landform	Low rolling hills; few interesting landscape features	1
Vegetation	Very little variety and contrast in the vegetation; vegetation consists mostly of grassy plains, sparse sagebrush, and some trees	1
Water	Any water sources are not noticeable	0
Color	Mostly muted tones; very little contrast or variations in the color	1
Influence of Adjacent Scenery	Adjacent scenery has little or no influence on the overall visual quality of the project site	1
Scarcity	All scenic characteristics are interesting within their settings, but are very common within the region	1
Cultural Modifications	Modifications add very little visual variety to the area and introduce very few discordant elements	0
	Total Score	5

Table 3.10-1 1980-2010 Historical and Current Population Change for Counties and Communities within the 80 km Radius of Smith Ranch

State County City	Year								Average Annual Percent Change						
	1980	1990	2000	2002	2004	2006	2008	2010	1980/1990	1990/2000	2000/2002	2002/2004	2004/2006	2006/2008	2008/2010
Wyoming	469,557	453,588	493,782	498,973	505,534	515,004	532,668	563,626	-0.3	8.9	1.0	1.3	1.9	3.4	5.8
Campbell	24,367	29,370	33,698	36,142	36,629	38,934	41,473	46,133	20.5	14.7	7.3	1.3	6.3	6.5	11.2
Douglas	-	-	5,317	5,340	5,373	5,539	5,971	6,120	-	-	0.4	0.6	3.1	7.8	2.5
Gillette	12,134	17,635	19,646	21,819	22,174	-	26,871	29,087	45.3	11.4	11.1	1.6	-	-	8.2
Wright	-	1,236	1,347	1,426	1,408	-	1,462	1,807	-	9.0	5.9	-1.3	-	-	23.6
Converse	14,069	11,128	12,052	12,352	12,501	12,866	13,267	13,833	-20.9	8.3	2.5	1.2	2.9	3.1	4.3
Glenrock	2,736	2,153	2,231	2,290	2,302	-	2,423	2,576	-21.3	3.6	2.6	0.5	-	-	6.3
Rolling Hills	-	330	449	460	461	-	505	440	-	36	2.5	0.2	-	-	-12.9
Johnson	6,700	6,145	7,075	7,412	7,609	8,014	8,464	8,569	-8.3	15.1	4.8	2.7	5.3	5.6	1.2
Kaycee	271	256	249	261	269	-	290	263	-5.5	-2.7	4.8	3.1	-	-	-9.3
Natrona	71,856	61,226	66,533	67,509	68,989	70,401	73,129	74,809	-14.8	8.7	1.5	2.2	2.0	3.9	2.3
Casper	-	-	49,729	50,116	50,969	51,971	54,047	55,316	-	-	0.8	1.7	2.0	4.0	2.3
Bar Nunn	-	835	936	955	1,139	1,521	1,828	2,213	-	12.1	2.0	19.3	33.5	20.2	21.1
Edgerton	510	247	169	170	172	-	176	195	-	-31.6	0.6	1.2	-	-	10.8
Midwest	638	495	408	411	427	-	435	404	-22.4	-17.6	0.7	3.9	-	-	-7.1
Niobrara County	2,924	2,499	2,407	2,266	2,283	2,253	2,428	2,484	-14.5	-3.7	-5.9	-7.5	-1.3	7.8	2.3
Source: U.S. Department of Commerce, Bureau of the Census, 2010c: U.S. Department of Commerce, Bureau of Census: State and County Quickfacts, 2000-2010b															

Table 3.10-2 2010 Population by Age and Sex for Wyoming and the Counties within the 80 km Radius of Smith Ranch

Area	Age	Male	Female	Total	Total Percent Breakdown
State of Wyoming	Under 5	20,705	19,636	40,341	6.8
	5-19	56,073	51,853	107,926	18.2
	20-39	79,370	71,476	150,846	25.5
	40-64	146,380	87,983	234,363	39.6
	65+	27,586	30,474	58,060	9.8
	Total	330,114	261,422	591,536	100.0
Campbell County	Under 5	2,040	2,023	4,063	8.8
	5-19	5,336	4,828	10,164	22.0
	20-39	7,572	6,487	14,059	30.5
	40-64	8,112	7,119	15,231	33.0
	65+	1,198	1,418	2,616	5.7
	Total	24,258	21,875	46,133	100.0
Converse County	Under 5	519	451	970	7.0
	5-19	1,470	1,399	2,869	20.7
	20-39	1,648	1,601	3,249	23.5
	40-64	2,555	2,414	4,969	35.9
	65+	825	951	1,776	12.8
	Total	7,017	6,816	13,833	100.0
Johnson County	Under 5	318	255	573	6.7
	5-19	744	735	1,479	17.3
	20-39	930	868	1,798	21.0
	40-64	1,601	1,530	3,131	36.5
	65+	772	816	1,588	18.5
	Total	4,365	4,204	8,569	100.0
Natrona County	Under 5	2,770	2,607	5,377	7.1
	5-19	7,538	7,182	14,720	19.5
	20-39	10,578	9,876	20,554	27.2
	40-64	12,919	12,488	25,407	33.7
	65+	4,077	5,315	9,392	12.4
	Total	37,982	37,468	75,450	100.0
Niobrary County	Under 5	46	50	96	3.9
	5-19	236	178	414	16.7
	20-39	206	349	555	22.3
	40-64	436	470	906	36.5
	65+	235	278	513	20.7
	Total	1,159	1,325	2,484	100.0
Source: U.S. Department of Commerce, Bureau of the Census 2010b					

Table 3.10-3 2010-2030 Population Projections for Wyoming and the Counties within the 80 km Radius of Smith Ranch

Area	Census 2010	Projected 2015	Projected 2020	Projected 2025	Projected 2030
Wyoming	563,626	594,710	622,360	644,050	668,830
Campbell County	46,133	51,790	56,890	61,350	66,060
Converse County	13,833	15,050	15,950	16,610	17,270
Johnson County	8,569	8,940	9,450	9,910	10,450
Natrona County	75,450	79,020	82,490	85,190	88,320
Niobrara County	2,484	2,590	2,660	2,690	2,710
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2011					

Table 3.10-4 2010 Population within the 80 km Radius of Smith Ranch

Sector	Radius in km													Total
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	
N	0	0	0	0	0	0	2	0	0	0	4	6	1,474	1,486
NNE	0	0	0	0	0	0	0	0	20	12	0	8	8	48
NE	0	0	0	0	0	0	0	0	10	0	0	0	6	16
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	2	0	1,787	0	0	2	0	1,791
ESE	0	0	0	0	0	0	0	0	14	0	0	2	0	16
SE	0	0	0	0	0	0	0	0	4	70	10	30	6	120
SSE	0	0	0	0	0	0	0	18	0	5,665	2	2	34	5,721
S	0	0	0	0	0	0	0	32	0	8	8	0	0	48
SSW	0	0	0	0	0	0	4	2	0	0	0	0	0	2
SW	0	0	0	0	0	0	0	2,932	0	14	0	321	2	3,269
WSW	0	0	0	0	0	0	0	0	865	243	56,230	4,357	170	61,865
W	0	0	0	0	0	0	4	0	4	0	324	0	16	348
WNW	0	0	0	0	0	0	0	0	0	0	8	0	0	8
NW	0	0	0	0	0	0	0	0	2	0	4	615	41	664
NNW	0	0	0	0	0	0	0	0	4	0	0	8	2	14
Total	0	0	0	0	0	0	12	2,984	2,710	6,012	56,590	5,351	1,759	75,420

Notes: Each town from 0 to 80 km from the mine site was assigned its population value according to the 2010 Census and the intercensal year 2007. All ranches and individual homes between these towns were counted individually using aerial photos, dated 2009. The population was estimated with the average household size in 2010 for each individual house (two persons per house), and was doubled for the average household size for each ranch (four persons per ranch). See section 3.10.1 for a detailed description of the methodology.

Table 3.10-5 2009 Annual Average Labor Force Characteristics and Employment in Economic Sectors for State of Wyoming and Converse County

	State of Wyoming		Converse County	
Industry	**Number of Employees**	**%**	**Number of Employees**	**%**
Labor Force	290,502	70.3	7,189	71.1
Armed Forces	3,759	0.9	70	0.0
Civilian Labor Force	286,743	69.4	7,189	71.1
Employed	273,892	66.3	6,901	68.3
Unemployed	12,851	3.1	288	2.9
Not in Labor Force	122,631	29.7	2,916	28.9
Agriculture, Fishing, Forestry, and Mining	31,999	11.7	1,720	24.9
Construction	24,230	8.8	606	8.8
Manufacturing	13,500	4.9	297	4.3
Transportation, Warehousing, and Public Utilities	18,011	6.6	642	9.3
Information	4,408	1.6	71	1.0
Wholesale Trade	6,482	2.4	106	1.5
Retail Trade	31,534	11.5	459	6.7
Finance, Insurance, and Real Estate	11,952	4.4	402	5.8
Professional, Scientific, Management, Administrative, and Waste Management	17,606	6.4	266	3.9
Educational Services, Health Care, Social Assistance	58,226	21.3	1,340	19.4
Arts, Entertainment, Recreation, Accommodation, and Food Services	27,679	10.1	501	7.3
Other Services, Except Public Administration	11,752	4.3	217	3.1
Public Administration	16,513	6.0	274	4.0
Occupation				
Managerial and Professional Specialty	84,131	30.7	1,949	28.2
Sales and Office	61,729	22.5	1,348	19.5
Service	47,141	17.2	986	14.3
Farming, Forestry, and Fishing	3,813	1.4	236	3.4
Construction, Extraction, Maintenance, and Repair	41,170	15.0	1,325	19.2
Production, Transportation, and Material Moving	35,908	13.1	1,057	15.3
Source: U.S. Department of Commerce, Bureau of the Census, 2009				

Table 3.10-6 Labor Force Statistics for Locations within the 80 km Area Surrounding Smith Ranch

Location/Year	Civilian Labor Force	Employed	Unemployed	Unemployment Rate (%)
Wyoming				
2000	254,508	241,055	13,453	5.3
2005-2009 Estimates	286,743	273,892	12,851	4.5
Campbell County				
2000	18,805	17,975	830	4.4
2005-2009 Estimates	24,314	23,286	1,210	4.0
Converse County				
2000	6,244	5,951	288	4.6
2005-2009 Estimates	7,185	6,902	404	4.0
Johnson County				
2000	3,472	3,242	209	6.1
2005-2009 Estimates	4,126	3,965	110	1.7
Natrona County				
2000	35,081	33,213	1,811	5.2
2005-2009 Estimates	38,888	37,084	2,649	4.7
Niobrara County				
2000	1,193	1,153	40	3.4
2005-2009 Estimates	1,223	1,208	25	1.3
Casper				
2000	26,343	25,003	1,298	4.9
2005-2009 Estimates	28,525	27,160	1,943	4.7
Douglas				
2000	2,736	2,637	99	3.6
2005-2009 Estimates	3,137	3,044	128	2.9
Gillette				
2000	10,991	10,494	497	4.5
2005-2009 Estimates	15,459	14,707	828	4.4
Glenrock				
2000	1,658	1,012	58	5.4
2005-2009 Estimates	1,527	1,460	92	4.5
Kaycee				
2000	116	116	0	0.0
2005-2009 Estimates	165	165	0	0.0
Wright				
2000	756	735	21	2.8
2005-2009 Estimates	620	602	23	2.9
Source: U.S. Department of Commerce, Bureau of the Census, 2009b				

Table 3.10-7 Housing Characteristics and the Average Rental Rates in Fourth Quarter 2010 and Change from Fourth Quarter 2009 for Counties within an 80 km Radius of Smith Ranch

	Apartment[1]		Mobile Home Lot[2]		House[3]		Mobile Home[4]		Housing Unit Estimate	Rental Vacancy		
	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change		Total	Vacant Units	Vacancy Rate
Wyoming	$651	0.4	$281	1.6	$928	3.0	$619	-1.9	-	-	-	-
Campbell County	$717	-7.4	$377	4.1	$1,222	0.9	$860	-8.2	16,085	2,318	289	8.61
Converse County	$555	-6.5	$191	3.2	$735	7.8	$668	17.5	3,806	172	14	8.14
Johnson County	$603	1.7	$245	NA	$823	-3.6	$618	4.0	1,353	120	11	9.17
Natrona County	$676	-1.1	$314	18.4	$1,035	1.9	$598	-1.4	4,758	173	11	6.36
Niobrary County	$435	0.6	NA	NA	$582	2.7	NA	NA	3,357	89	1	1.12

Source: Wyoming Community Development Authority, 2010; 2011

[1]Two-bedroom, unfurnished, excluding gas and electric.

[2]Single-wide, including water.

[3]Two- or three-bedroom, single family, excluding gas and electric.

[4]Total monthly rental expense, including lot rent.

Table 3.10-8 2009 Personal Income Levels for Smith Ranch and Nearby Communities

State County City	Median Earnings for Full-Time Year-Round Workers		Median Household Income	Median Family Income	Per Capita Income
	Men	Women			
Wyoming	46,875	30,047	51,990	63,245	26,925
Campbell County	35,589	57,886	74,757	82,626	30,319
Converse County	28,867	51,053	55,240	66,494	26,658
Johnson County	30,200	39,162	42,849	56,531	24,111
Natrona County	30,093	45,159	50,382	62,869	27,261
Niobrara County	29,185	40,385	43,580	58,000	23,582
Casper	30,505	45,910	48,607	62,773	19,409
Douglas	27,028	53,685	51,488	67,625	17,634
Edgerton	14,375	24,583	28,750	33,750	14,331
Glenrock	35,541	49,474	63,472	71,116	17,088
Midwest	20,625	28,000	30,000	33,125	12,891
Wright	37,361	70,703	84,345	86,136	20,126
Source: U.S. Department of Commerce, Bureau of the Census: American FactFinder, 2000-2010a					

Table 3.10-9 State and Local Sales and Use Tax Distribution for the Counties within 80 km of the Smith Ranch

Neighboring Counties	Use Tax		Sales Tax		Gross Revenue
	State	Local	State	Local	
Campbell	$15,898,351	$4,456,008	$126,102,084	$36,984,996	$183,441,439
Converse	$2,458,154	$614,198	$19,055,836	$5,763,951	$26,892,139
Johnson	$632,502	$157,787	$12,586,211	$3,146,566	$16,523,066
Natrona	$7,800,467	$1,949,753	$81,932,735	$20,482,918	$112,165,873
Niobrara	$225,100	$92,679	$1,674,976	$723,646	$2,716,401
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2009					

Table 3.10-10 1980-2010 Historical and Current Population Change for Counties and Communities within the 80 km Radius of the North Butte Remote Satellite

State / County / City	Year								Average Annual Percent Change						
	1980	1990	2000	2002	2004	2006	2008	2010	1980/1990	1990/2000	2000/2002	2002/2004	2004/2006	2006/2008	2008/2010
Wyoming	469,557	453,588	493,782	498,973	505,534	515,004	532,668	563,626	-0.3	8.9	1.0	1.3	1.9	3.4	5.8
Campbell	24,367	29,370	33,698	36,142	36,629	38,934	41,473	46,133	20.5	14.7	7.3	1.3	6.3	6.5	11.2
Gillette	12,134	17,635	19,646	21,819	22,174	-	26,871	29,087	45.3	11.4	11.1	1.6	-	-	8.2
Wright	-	1,236	1,347	1,426	1,408	-	1,462	1,807	-	9.0	5.9	-1.3	-	-	23.6
Converse	14,069	11,128	12,052	12,352	12,501	12,866	13,267	13,833	-20.9	8.3	2.5	1.2	2.9	3.1	4.3
Johnson	6,700	6,145	7,075	7,412	7,609	8,014	8,464	8,569	-8.3	15.1	4.8	2.7	5.3	5.6	1.2
Kaycee	271	256	249	261	269	-	290	263	-5.5	-2.7	4.8	3.1	-	-	-9.3
Natrona	71,856	61,226	66,533	67,509	68,989	70,401	73,129	74,809	-14.8	8.7	1.5	2.2	2.0	3.9	2.3
Edgerton	510	247	169	170	172	-	176	195	-	-31.6	0.6	1.2	-	-	10.8
Midwest	638	495	408	411	427	-	435	404	-22.4	-17.6	0.7	3.9	-	-	-7.1

Source: U.S. Department of Commerce, Bureau of the Census, 2010c: U.S. Department of Commerce, Bureau of Census: State and County Quickfacts, 2000-2010b

Table 3.10-11 2010 Population by Age and Sex for Wyoming and the Counties within the 80 km Radius of the North Butte Remote Satellite

Area	Age	Male	Female	Total	Total Percent Breakdown
State of Wyoming	Under 5	20,705	19,636	40,341	6.8
	5-19	56,073	51,853	107,926	18.2
	20-39	79,370	71,476	150,846	25.5
	40-64	146,380	87,983	234,363	39.6
	65+	27,586	30,474	58,060	9.8
	Total	330,114	261,422	591,536	100.0
Campbell County	Under 5	2,040	2,023	4,063	8.8
	5-19	5,336	4,828	10,164	22.0
	20-39	7,572	6,487	14,059	30.5
	40-64	8,112	7,119	15,231	33.0
	65+	1,198	1,418	2,616	5.7
	Total	24,258	21,875	46,133	100.0
Converse County	Under 5	519	451	970	7.0
	5-19	1,470	1,399	2,869	20.7
	20-39	1,648	1,601	3,249	23.5
	40-64	2,555	2,414	4,969	35.9
	65+	825	951	1,776	12.8
	Total	7,017	6,816	13,833	100.0
Johnson County	Under 5	318	255	573	6.7
	5-19	744	735	1,479	17.3
	20-39	930	868	1,798	21.0
	40-64	1,601	1,530	3,131	36.5
	65+	772	816	1,588	18.5
	Total	4,365	4,204	8,569	100.0
Natrona County	Under 5	2,770	2,607	5,377	7.1
	5-19	7,538	7,182	14,720	19.5
	20-39	10,578	9,876	20,554	27.2
	40-64	12,919	12,488	25,407	33.7
	65+	4,077	5,315	9,392	12.4
	Total	37,982	37,468	75,450	100.0

Source: U.S. Department of Commerce, Bureau of the Census 2010b

Table 3.10-12 2010-2030 Population Projections for Wyoming and the Counties within the 80 km Radius of the North Butte Remote Satellite

Area	Census 2010	Projected 2015	Projected 2020	Projected 2025	Projected 2030
Wyoming	563,626	594,710	622,360	644,050	668,830
Campbell County	46,133	51,790	56,890	61,350	66,060
Converse County	13,833	15,050	15,950	16,610	17,270
Johnson County	8,569	8,940	9,450	9,910	10,450
Natrona County	75,450	79,020	82,490	85,190	88,320
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2011					

Table 3.10-13 2010 Population within the 80 km Radius of the North Butte Remote Satellite

Sector	Radius in km													Total
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	
N	0	0	0	0	0	0	4	8	0	8	2	0	0	22
NNE	0	0	0	0	0	0	8	16	20	56	114	29,091	0	29,305
NE	0	0	0	0	0	0	24	32	10	24	80	1,284	10	1,464
ENE	0	0	0	0	0	0	0	2	0	76	2	0	12	92
E	0	0	0	0	0	0	0	4	1,787	32	4	4	4	1,835
ESE	0	0	0	0	0	0	6	4	14	4	0	4	4	36
SE	0	4	0	0	0	0	4	0	4	0	12	4	0	28
SSE	0	0	0	0	0	0	0	0	0	4	8	4	0	16
S	0	0	0	0	0	0	0	0	0	2	0	0	0	2
SSW	0	0	0	0	0	0	4	2	0	194	8	0	0	210
SW	0	0	0	0	0	0	0	44	0	394	20	2	0	460
WSW	0	0	0	0	0	0	2	2	865	2	0	4	8	883
W	0	0	0	0	0	4	0	4	4	2	280	10	14	318
WNW	0	0	0	0	0	0	0	12	0	0	0	16	8	36
NW	0	0	0	0	0	0	0	0	0	0	0	32	124	156
NNW	0	0	0	0	0	0	0	0	0	0	0	16	12	28
Total	**0**	**4**	**0**	**0**	**0**	**4**	**52**	**130**	**2,704**	**798**	**530**	**30,471**	**196**	**34,891**

Notes: Each town from 0 to 80 km from the mine site was assigned its population value according to the 2010 Census and the intercensal year 2007. All ranches and individual homes between these towns were counted individually using aerial photos, dated 2009. The population was estimated with the average household size in 2010 for each individual house (two persons per house), and was doubled for the average household size for each ranch (four persons per ranch). See section 3.10.1 for a detailed description of the methodology.

Table 3.10-14 2009 Annual Average Labor Force Characteristics and Employment in Economic Sectors for State of Wyoming and Campbell County

	State of Wyoming		Campbell County	
Industry	**Number of Employees**	**%**	**Number of Employees**	**%**
Labor Force	290,502	70.3	24,321	80.4
Armed Forces	3,759	0.9	67	0.2
Civilian Labor Force	286,743	69.4	24,254	80.2
Employed	273,892	66.3	23,276	77.0
Unemployed	12,851	3.1	978	3.2
Not in Labor Force	122,631	29.7	5,920	19.6
Agriculture, Fishing, Forestry, and Mining	31,999	11.7	5,565	23.9
Construction	24,230	8.8	2,545	10.9
Manufacturing	13,500	4.9	652	2.8
Transportation, Warehousing, and Public Utilities	18,011	6.6	1,740	7.5
Information	4,408	1.6	172	0.7
Wholesale Trade	6,482	2.4	981	4.2
Retail Trade	31,534	11.5	2,675	11.5
Finance, Insurance, and Real Estate	11,952	4.4	511	2.2
Professional, Scientific, Management, Administrative, and Waste Management	17,606	6.4	1,109	4.8
Educational Services, Health Care, Social Assistance	58,226	21.3	3,995	17.2
Arts, Entertainment, Recreation, Accommodation, and Food Services	27,679	10.1	1,789	7.7
Other Services, Except Public Administration	11,752	4.3	1,036	4.5
Public Administration	16,513	6.0	506	2.2
Occupation				
Managerial and Professional Specialty	84,131	30.7	5,340	22.9
Sales and Office	61,729	22.5	4,945	21.2
Service	47,141	17.2	2,821	12.1
Farming, Forestry, and Fishing	3,813	1.4	123	0.5
Construction, Extraction, Maintenance, and Repair	41,170	15.0	5,755	24.7
Production, Transportation, and Material Moving	35,908	13.1	4,292	18.4
Source: U.S. Department of Commerce, Bureau of the Census, 2009				

Table 3.10-15 Labor Force Statistics for Locations within the 80 km Area Surrounding the North Butte Remote Satellite

Location/Year	Civilian Labor Force	Employed	Unemployed	Unemployment Rate (%)
Wyoming				
2000	254,508	241,055	13,453	5.3
2005-2009 Estimates	286,743	273,892	12,851	4.5
Campbell County				
2000	18,805	17,975	830	4.4
2005-2009 Estimates	24,314	23,286	1,210	4.0
Converse County				
2000	6,244	5,951	288	4.6
2005-2009 Estimates	7,185	6,902	404	4.0
Johnson County				
2000	3,472	3,242	209	6.1
2005-2009 Estimates	4,126	3,965	110	1.7
Natrona County				
2000	35,081	33,213	1,811	5.2
2005-2009 Estimates	38,888	37,084	2,649	4.7
Edgerton City				
2000	66	66	0	0.0
2005-2009 Estimates	98	98	0	0.0
Gillette City				
2000	10,991	10,494	497	4.5
2005-2009 Estimates	15,459	14,707	828	4.4
Kaycee Town				
2000	116	116	0	0.0
2005-2009 Estimates	165	165	0	0.0
Midwest Town				
2000	187	165	22	11.8
2005-2009 Estimates	227	210	27	7.5
Wright Town				
2000	756	735	21	2.8
2005-2009 Estimates	620	602	23	2.9
Source: U.S. Department of Commerce, Bureau of the Census, 2009				

Table 3.10-16 Housing Characteristics and the Average Rental Rates in Fourth Quarter 2010 and Change from Fourth Quarter 2009 for Counties within an 80 km Radius of the North Butte Remote Satellite

	Apartment[1]		Mobile Home Lot[2]		House[3]		Mobile Home[4]		Housing Unit Estimate	Rental Vacancy		
	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change		Total	Vacant Units	Vacancy Rate
Wyoming	$651	0.4	$281	1.6	$928	3.0	$619	-1.9	-	-	-	-
Campbell County	$717	-7.4	$377	4.1	$1,222	0.9	$860	-8.2	16,085	2,318	289	8.61
Converse County	$555	-6.5	$191	3.2	$735	7.8	$668	17.5	3,806	172	14	8.14
Johnson County	$603	1.7	$245	NA	$823	-3.6	$618	4.0	1,353	120	11	9.17
Natrona County	$676	-1.1	$314	18.4	$1,035	1.9	$598	-1.4	4,758	173	11	6.36

Source: Wyoming Community Development Authority, 2010; 2011

[1]Two-bedroom, unfurnished, excluding gas and electric.

[2]Single-wide, including water.

[3]Two- or three-bedroom, single family, excluding gas and electric.

[4]Total monthly rental expense, including lot rent.

Table 3.10-17 2009 Personal Income Levels for the North Butte Remote Satellite and Nearby Communities

State County City	Median Earnings for Full-Time Year-Round Workers		Median Household Income	Median Family Income	Per Capita Income
	Men	Women			
Wyoming	46,875	30,047	51,990	63,245	26,925
Campbell County	35,589	57,886	74,757	82,626	30,319
Converse County	28,867	51,053	55,240	66,494	26,658
Johnson County	30,200	39,162	42,849	56,531	24,111
Natrona County	30,093	45,159	50,382	62,869	27,261
Edgerton	14,375	24,583	28,750	33,750	14,331
Gillette	56,682	29,964	69,581	78,377	19,749
Kaycee	62,917	10,625	49,375	51,875	16,584
Midwest	20,625	28,000	30,000	33,125	12,891
Wright	37,361	70,703	84,345	86,136	20,126
Source: U.S. Department of Commerce, Bureau of the Census: American FactFinder, 2000-2010a					

Table 3.10-18 State and Local Sales and Use Tax Distribution for the Counties within 80 km of the North Butte Remote Satellite

Neighboring Counties	Use Tax		Sales Tax		Gross Revenue
	State	Local	State	Local	
Campbell	$15,898,351	$4,456,008	$126,102,084	$36,984,996	$183,441,439
Converse	$2,458,154	$614,198	$19,055,836	$4,763,951	$26,892,139
Johnson	$632,502	$157,787	$12,586,211	$3,146,566	$16,532,066
Natrona	$7,800,467	$1,949,753	$81,932,735	$20,482,918	$112,165,873
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2009					

Table 3.10-19 1980-2010 Historical and Current Population Change for Counties and Communities within the 80 km Radius of the Gas Hills Remote Satellite

State / County / City	Year								Average Annual Percent Change						
	1980	1990[++]	2000	2002	2004	2006	2008	2010[+++]	1980/1990	1990/2000	2000/2002	2002/2004	2004/2006	2006/2008	2008/2010
Wyoming	469,557	453,588	493,782	498,973	505,534	515,004	532,668	563,626	-3.4	8.9	1.0	1.3	1.9	3.4	5.8
Carbon	21,896	16,659	15,580	15,233	15,202	15,056	15,624	15,885	-23.9	-6.5	-2.2	-0.2	-1.0	3.8	1.7
Fremont	38,992	33,662	35,818	35,800	35,941	36,770	38,113	39,612	-13.7	6.4	-0.05	0.4	2.3	3.7	3.9
Riverton	9,562	9,202	9,256	9,321	9,300	9,608	10,032	10,615	-3.8	0.6	0.7	-0.2	3.3	4.4	5.8
Lander	7,867	7,023	6,915	6,867	6,837	6,989	7,264	7,487	-10.7	-1.5	-0.7	-0.4	2.2	3.9	3.1
Natrona	71,856	61,226	66,533	67,509	68,989	70,401	73,129	74,809	-14.8	8.7	1.5	2.2	2.0	3.9	2.3
Sweetwater	41,723	38,823	37,483	36,483	36,883	38,001	39,944	43,371	-7.0	-3.5	-1.7	0.1	-3.0	5.1	8.6
Bairoil	-	228	97	95	94	95	96	106	-	-57.5	-2.1	-1.1	1.1	1.1	10.4

Source: U.S. Department of Commerce, Bureau of the Census, 2010c: U.S. Department of Commerce, Bureau of Census: State and County Quickfacts, 2000-2010b

Table 3.10-20 2010 Population by Age and Sex for Wyoming and the Counties within the 80 km Radius of the Gas Hills Remote Satellite

Area	Age	Male	Female	Total	Total Percent Breakdown
State of Wyoming	Under 5	20,705	19,636	40,341	6.8
	5-19	56,073	51,853	107,926	18.2
	20-39	79,370	71,476	150,846	25.5
	40-64	146,380	87,983	234,363	39.6
	65+	27,586	30,474	58,060	9.8
	Total	330,114	261,422	591,536	100.0
Carbon County	Under 5	602	531	1,133	7.1
	5-19	1,547	1,378	2,925	18.4
	20-39	2,315	1,786	4,101	25.8
	40-64	3,070	2,612	5,682	35.8
	65+	1,019	1,025	2,044	12.9
	Total	8,553	7,332	15,885	100.0
Fremont County	Under 5	1,591	1,554	3,145	7.8
	5-19	4,187	3,955	8,142	20.3
	20-39	4,815	4,642	9,457	23.6
	40-64	6,741	6,833	13,574	33.8
	65+	2,696	3,109	5,805	14.5
	Total	20,030	20,093	40,123	100.0
Natrona County	Under 5	2,770	2,607	5,377	7.1
	5-19	7,538	7,182	14,720	19.5
	20-39	10,578	9,876	20,554	27.2
	40-64	12,919	12,488	25,407	33.7
	65+	4,077	5,315	9,392	12.4
	Total	37,982	37,468	75,450	100.0
Sweetwater County	Under 5	1,877	1,789	3,666	8.4
	5-19	4,938	4,493	9,431	21.5
	20-39	6,795	6,118	12,913	29.5
	40-64	7,505	6,648	14,153	32.3
	65+	1,734	1,909	3,643	8.3
	Total	22,849	20,957	43,806	100.0
Source: U.S. Department of Commerce, Bureau of the Census 2010b					

Table 3.10-21 2010-2030 Population Projections for Wyoming and the Counties within the 80 km Radius of the Gas Hills Remote Satellite

Area	Census 2010	Projected 2015	Projected 2020	Projected 2025	Projected 2030
Wyoming	563,626	594,710	622,360	644,050	668,830
Carbon County	15,885	16,030	16,380	16,360	16,270
Fremont County	40,123	42,540	44,360	45,670	47,120
Natrona County	75,450	79,020	82,490	85,190	88,320
Sweetwater County	43,806	46,430	49,280	50,820	51,960
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2011					

Table 3.10-22 2010 Population within the 80 km Radius of the Gas Hills Remote Satellite

Sector	Radius in km													Total
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	
N	0	0	0	0	0	4	0	0	0	0	6	4	0	14
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	4	0	0	0	44	0	0	48
E	0	0	0	0	0	0	0	0	0	0	0	0	149	149
ESE	0	0	0	0	0	0	0	0	0	2	0	0	76	78
SE	0	0	0	0	0	0	0	0	0	2	6	0	2	10
SSE	0	0	0	0	0	0	0	0	0	0	0	2	0	2
S	0	0	0	0	0	0	12	0	0	0	0	106	0	118
SSW	0	0	0	0	0	0	4	8	0	0	0	0	0	12
SW	0	0	0	0	0	0	0	2	0	64	0	0	0	66
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	12,271	12,271
NW	0	0	0	0	0	4	4	0	0	0	0	691	10	709
NNW	0	0	0	0	0	0	4	2	0	0	20	0	0	26
Total	**0**	**0**	**0**	**0**	**0**	**8**	**28**	**12**	**0**	**68**	**76**	**803**	**12,508**	**13,503**

Notes: Each town from 0 to 80 km from the mine site was assigned its population value according to the 2010 Census and the intercensal year 2007. All ranches and individual homes between these towns were counted individually using aerial photos, dated 2009. The population was estimated with the average household size in 2010 for each individual house (two persons per house), and was doubled for the average household size for each ranch (four persons per ranch). See section 3.10.1 for a detailed description of the methodology.

Table 3.10-23 2009 Annual Average Labor Force Characteristics and Employment in Economic Sectors for State of Wyoming and Fremont County

	State of Wyoming		Fremont County	
Industry	**Number of Employees**	**%**	**Number of Employees**	**%**
Labor Force	290,502	70.3	19,593	67.4
Armed Forces	3,759	0.9	3	0.0
Civilian Labor Force	286,743	69.4	19,590	67.4
Employed	273,892	66.3	18,305	63.0
Unemployed	12,851	3.1	1,285	4.4
Not in Labor Force	122,631	29.7	9,468	32.6
Agriculture, Fishing, Forestry, and Mining	31,999	11.7	1,934	10.6
Construction	24,230	8.8	1,699	9.3
Manufacturing	13,500	4.9	808	4.4
Transportation, Warehousing, and Public Utilities	18,011	6.6	738	4.0
Information	4,408	1.6	256	1.4
Wholesale Trade	6,482	2.4	223	1.3
Retail Trade	31,534	11.5	1,788	9.8
Finance, Insurance, and Real Estate	11,952	4.4	619	3.4
Professional, Scientific, Management, Administrative, and Waste Management	17,606	6.4	1,021	5.6
Educational Services, Health Care, Social Assistance	58,226	21.3	4,694	25.6
Arts, Entertainment, Recreation, Accommodation, and Food Services	27,679	10.1	1,884	10.3
Other Services, Except Public Administration	11,752	4.3	1,085	5.9
Public Administration	16,513	6.0	1,546	8.4
Occupation				
Managerial and Professional Specialty	84,131	30.7	6,073	33.2
Sales and Office	61,729	22.5	3,950	21.6
Service	47,141	17.2	3,595	19.6
Farming, Forestry, and Fishing	3,813	1.4	249	1.4
Construction, Extraction, Maintenance, and Repair	41,170	15.0	2,574	14.1
Production, Transportation, and Material Moving	35,908	13.1	1,864	10.2
Source: U.S. Department of Commerce, Bureau of the Census, 2009				

Table 3.10-24 Labor Force Statistics for Locations within the 80 km Area Surrounding the Gas Hills Remote Satellite

Location/Year	Civilian Labor Force	Employed	Unemployed	Unemployment Rate (%)
Wyoming				
2000	254,508	241,055	13,453	5.3
2005-2009 Estimates	286,743	273,892	12,851	4.5
Carbon County				
2000	7,744	7,335	409	5.3
2005-2009 Estimates	8,207	7,798	409	5.0
Fremont County				
2000	17,637	16,052	1,562	8.9
2005-2009 Estimates	19,590	18,305	1,285	6.6
Natrona County				
2000	35,081	33,213	1,811	5.2
2005-2009 Estimates	38,888	37,084	2,649	4.7
Sweetwater County				
2000	19,988	18,845	1,143	5.7
2005-2009 Estimates	22,033	21,192	841	3.8
Bairoil City				
2000	42	42	0	0.0
2005-2009 Estimates	48	48	0	0.0
Riverton Town				
2000	4,694	4,258	436	9.3
2005-2009 Estimates	5,208	4,687	764	10.1
Source: U.S. Department of Commerce, Bureau of the Census, 2009				

Table 3.10-25 Housing Characteristics and the Average Rental Rates in Fourth Quarter 2010 and Change from Fourth Quarter 2009 for Counties within an 80 km Radius of the Gas Hills Remote Satellite

	Apartment[1]		Mobile Home Lot[2]		House[3]		Mobile Home[4]		Housing Unit Estimate	Rental Vacancy		
	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change		Total	Vacant Units	Vacancy Rate
Wyoming	$651	0.4	$281	1.6	$928	3.0	$619	-1.9	NA	7,783	1,401	18.3
Carbon County	$671	-0.7	$278	-1.8	$792	-6.2	$733	2.1	8,711	731	103	14.09
Fremont County	$571	0.5	$199	0.0	$821	8.6	$724	3.7	17,796	1,388	45	3.24
Natrona County	$676	-1.1	$314	18.4	$1,035	1.9	$598	-1.4	4,758	173	11	6.36
Sweetwater County	$688	0.7	$319	3.9	$932	-0.5	$801	-2.0	18,735	2,687	156	5.81

Source: Wyoming Community Development Authority, 2010; 2011

[1]Two-bedroom, unfurnished, excluding gas and electric.

[2]Single-wide, including water.

[3]Two- or three-bedroom, single family, excluding gas and electric.

[4]Total monthly rental expense, including lot rent.

Table 3.10-26 2009 Personal Income Levels for the Gas Hills Remote Satellite and Nearby Communities

State County City	Median Earnings for Full-Time Year-Round Workers		Median Household Income	Median Family Income	Per Capita Income
	Men	Women			
Wyoming	46,875	30,047	51,990	63,245	26,925
Carbon County	50,422	32,453	50,963	60,349	25,606
Fremont County	40,352	26,973	43,872	54,040	23,868
Natrona County	30,093	45,159	50,382	62,869	27,261
Sweetwater County	63,407	29,163	67,210	74,615	29,825
Bairoil	59,375	41,250	49,167	46,250	22,707
Riverton	41,546	27,192	39,331	44,375	24,205
Source: U.S. Department of Commerce, Bureau of the Census: American FactFinder, 2000-2010a					

Table 3.10-27 State and Local Sales and Use Tax Distribution for the Counties within 80 km of the Gas Hills Remote Satellite

Neighboring Counties	Use Tax		Sales Tax		Gross Revenue
	State	Local	State	Local	
Carbon	$2,871,311	$805,374	$25,175,135	$6,748,201	$35,600,021
Fremont	$4,800,614	$475,559	$27,378,928	$2,952,070	$35,607,171
Natrona	$7,800,467	$1,949,753	$81,932,735	$20,482,918	$112,165,873
Sweetwater	$14,247,199	$7,166,318	$75,549,214	$37,667,624	$134,630,355
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2009					

Table 3.10-28 1980-2010 Historical and Current Population Change for Counties and Communities within the 80 km Radius of the Ruth Remote Satellite

State County City	Year								Average Annual Percent Change						
	1980	1990	2000	2002	2004	2006	2008	2010	1980/1990	1990/2000	2000/2002	2002/2004	2004/2006	2006/2008	2008/2010
Wyoming	469,557	453,588	493,782	498,973	505,534	515,004	532,668	563,626	-0.3	8.9	1.0	1.3	1.9	3.4	5.8
Campbell	24,367	29,370	33,698	36,142	36,629	38,934	41,473	46,133	20.5	14.7	7.3	1.3	6.3	6.5	11.2
Gillette	12,134	17,635	19,646	21,819	22,174	-	26,871	29,087	45.3	11.4	11.1	1.6	-	-	8.2
Wright	-	1,236	1,347	1,426	1,408	-	1,462	1,807	-	9.0	5.9	-1.3	-	-	23.6
Converse	14,069	11,128	12,052	12,352	12,501	12,866	13,267	13,833	-20.9	8.3	2.5	1.2	2.9	3.1	4.3
Johnson	6,700	6,145	7,075	7,412	7,609	8,014	8,464	8,569	-8.3	15.1	4.8	2.7	5.3	5.6	1.2
Kaycee	271	256	249	261	269	-	290	263	-5.5	-2.7	4.8	3.1	-	-	-9.3
Natrona	71,856	61,226	66,533	67,509	68,989	70,401	73,129	74,809	-14.8	8.7	1.5	2.2	2.0	3.9	2.3
Edgerton	510	247	169	170	172	-	176	195	-	-31.6	0.6	1.2	-	-	10.8
Midwest	638	495	408	411	427	-	435	404	-22.4	-17.6	0.7	3.9	-	-	-7.1

Source: U.S. Department of Commerce, Bureau of the Census, 2010c: U.S. Department of Commerce, Bureau of Census: State and County Quickfacts, 2000-2010b

Table 3.10-29 2010 Population by Age and Sex for Wyoming and the Counties within the 80 km Radius of the Ruth Remote Satellite

Area	Age	Male	Female	Total	Total Percent Breakdown
State of Wyoming	Under 5	20,705	19,636	40,341	6.8
	5-19	56,073	51,853	107,926	18.2
	20-39	79,370	71,476	150,846	25.5
	40-64	146,380	87,983	234,363	39.6
	65+	27,586	30,474	58,060	9.8
	Total	330,114	261,422	591,536	100.0
Campbell County	Under 5	2,040	2,023	4,063	8.8
	5-19	5,336	4,828	10,164	22.0
	20-39	7,572	6,487	14,059	30.5
	40-64	8,112	7,119	15,231	33.0
	65+	1,198	1,418	2,616	5.7
	Total	24,258	21,875	46,133	100.0
Converse County	Under 5	519	451	970	7.0
	5-19	1,470	1,399	2,869	20.7
	20-39	1,648	1,601	3,249	23.5
	40-64	2,555	2,414	4,969	35.9
	65+	825	951	1,776	12.8
	Total	7,017	6,816	13,833	100.0
Johnson County	Under 5	318	255	573	6.7
	5-19	744	735	1,479	17.3
	20-39	930	868	1,798	21.0
	40-64	1,601	1,530	3,131	36.5
	65+	772	816	1,588	18.5
	Total	4,365	4,204	8,569	100.0
Natrona County	Under 5	2,770	2,607	5,377	7.1
	5-19	7,538	7,182	14,720	19.5
	20-39	10,578	9,876	20,554	27.2
	40-64	12,919	12,488	25,407	33.7
	65+	4,077	5,315	9,392	12.4
	Total	37,982	37,468	75,450	100.0
Source: U.S. Department of Commerce, Bureau of the Census 2010b					

Table 3.10-30 2010-2030 Population Projections for Wyoming and the Counties within the 80 km Radius of the Ruth Remote Satellite

Area	Census 2010	Projected 2015	Projected 2020	Projected 2025	Projected 2030
Wyoming	563,626	594,710	622,360	644,050	668,830
Campbell County	46,133	51,790	56,890	61,350	66,060
Converse County	13,833	15,050	15,950	16,610	17,270
Johnson County	8,569	8,940	9,450	9,910	10,450
Natrona County	75,450	79,020	82,490	85,190	88,320
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2011					

Table 3.10-31 2010 Population within the 80 km Radius of the Ruth Remote Satellite

Sector	Radius in km													Total
	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	
N	0	0	0	0	0	0	4	0	2	0	0	0	0	6
NNE	0	0	0	0	0	0	0	12	12	32	6	48	48	158
NE	0	0	0	0	0	0	0	8	18	28	8	92	56	210
ENE	0	0	0	0	0	0	0	0	8	1,197	610	24	4	1,843
E	0	0	0	0	0	0	0	0	4	12	0	0	0	16
ESE	0	0	0	0	0	0	0	0	0	8	8	4	0	20
SE	0	0	0	0	0	0	2	0	4	4	0	0	0	10
SSE	0	0	0	0	0	0	0	0	0	0	0	0	448	448
S	0	0	0	0	0	0	0	0	0	2	0	0	0	2
SSW	0	0	0	0	0	0	0	4	4	2	54	97	2,491	2,652
SW	0	0	0	0	0	0	2	8	580	2	0	0	0	592
WSW	0	0	0	0	0	0	8	0	0	0	2	0	0	10
W	0	0	0	0	0	0	0	0	2	4	4	22	4	36
WNW	0	0	0	0	0	0	0	847	10	290	0	4	8	1,159
NW	0	0	0	0	0	0	4	0	0	0	0	8	28	40
NNW	0	0	0	0	0	0	0	16	2	0	0	0	52	70
Total	0	0	0	0	0	0	20	895	646	1,581	692	299	3,139	2,272

Notes: Each town from 0 to 80 km from the mine site was assigned its population value according to the 2010 Census and the intercensal year 2007. All ranches and individual homes between these towns were counted individually using aerial photos, dated 2009. The population was estimated with the average household size in 2010 for each individual house (two persons per house), and was doubled for the average household size for each ranch (four persons per ranch). See section 3.10.1 for a detailed description of the methodology.

Table 3.10-32 2009 Annual Average Labor Force Characteristics and Employment in Economic Sectors for State of Wyoming and Johnson County

	State of Wyoming		Johnson County	
Industry	**Number of Employees**	**%**	**Number of Employees**	**%**
Labor Force	290,502	70.3	4,125	63.9
Armed Forces	3,759	0.9	92	1.4
Civilian Labor Force	286,743	69.4	4,033	62.5
Employed	273,892	66.3	3,963	61.4
Unemployed	12,851	3.1	70	1.1
Not in Labor Force	122,631	29.7	2,332	36.1
Agriculture, Fishing, Forestry, and Mining	31,999	11.7	732	18.5
Construction	24,230	8.8	487	12.3
Manufacturing	13,500	4.9	91	2.3
Transportation, Warehousing, and Public Utilities	18,011	6.6	93	2.3
Information	4,408	1.6	80	2.0
Wholesale Trade	6,482	2.4	93	2.3
Retail Trade	31,534	11.5	391	9.9
Finance, Insurance, and Real Estate	11,952	4.4	317	8.0
Professional, Scientific, Management, Administrative, and Waste Management	17,606	6.4	279	7.0
Educational Services, Health Care, Social Assistance	58,226	21.3	736	18.6
Arts, Entertainment, Recreation, Accommodation, and Food Services	27,679	10.1	294	7.4
Other Services, Except Public Administration	11,752	4.3	63	1.6
Public Administration	16,513	6.0	307	7.7
Occupation				
Managerial and Professional Specialty	84,131	30.7	1,291	32.6
Sales and Office	61,729	22.5	1,031	26.0
Service	47,141	17.2	555	14.0
Farming, Forestry, and Fishing	3,813	1.4	232	5.9
Construction, Extraction, Maintenance, and Repair	41,170	15.0	499	12.6
Production, Transportation, and Material Moving	35,908	13.1	355	9.0
Source: U.S. Department of Commerce, Bureau of the Census, 2009				

Table 3.10-33 Labor Force Statistics for Locations within the 80 km Area Surrounding the Ruth Remote Satellite

Location/Year	Civilian Labor Force	Employed	Unemployed	Unemployment Rate (%)
Wyoming				
2000	254,508	241,055	13,453	5.3
2005-2009 Estimates	286,743	273,892	12,851	4.5
Campbell County				
2000	18,805	17,975	830	4.4
2005-2009 Estimates	24,314	23,286	1,210	4.0
Converse County				
2000	6,244	5,951	288	4.6
2005-2009 Estimates	7,185	6,902	404	4.0
Johnson County				
2000	3,472	3,242	209	6.1
2005-2009 Estimates	4,126	3,965	110	1.7
Natrona County				
2000	35,081	33,213	1,811	5.2
2005-2009 Estimates	38,888	37,084	2,649	4.7
Edgerton				
2000	66	66	0	0.0
2005-2009 Estimates	98	98	0	0.0
Gillette				
2000	10,991	10,494	497	4.5
2005-2009 Estimates	15,459	14,707	828	4.4
Kaycee				
2000	116	116	0	0.0
2005-2009 Estimates	165	165	0	0.0
Midwest				
2000	187	165	22	11.8
2005-2009 Estimates	227	210	27	7.5
Wright				
2000	756	735	21	2.8
2005-2009 Estimates	620	602	23	2.9
Source: U.S. Department of Commerce, Bureau of the Census, 2009b				

Table 3.10-34 Housing Characteristics and the Average Rental Rates in Fourth Quarter 2010 and Change from Fourth Quarter 2009 for Counties within an 80 km Radius of the Ruth Remote Satellite

	Apartment[1]		Mobile Home Lot[2]		House[3]		Mobile Home[4]		Housing Unit Estimate	Rental Vacancy		
	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change	Q4 2010	% Change		Total	Vacant Units	Vacancy Rate
Wyoming	$651	0.4	$281	1.6	$928	3.0	$619	-1.9	-	-	-	-
Campbell County	$717	-7.4	$377	4.1	$1,222	0.9	$860	-8.2	16,085	2,318	289	8.61
Converse County	$555	-6.5	$191	3.2	$735	7.8	$668	17.5	3,806	172	14	8.14
Johnson County	$603	1.7	$245	NA	$823	-3.6	$618	4.0	1,353	120	11	9.17
Natrona County	$676	-1.1	$314	18.4	$1,035	1.9	$598	-1.4	4,758	173	11	6.36

Source: Wyoming Community Development Authority, 2010; 2011

[1]Two-bedroom, unfurnished, excluding gas and electric.

[2]Single-wide, including water.

[3]Two- or three-bedroom, single family, excluding gas and electric.

[4]Total monthly rental expense, including lot rent.

Table 3.10-35 2009 Personal Income Levels for the Ruth Remote Satellite and Nearby Communities

State County City	Median Earnings for Full-Time Year-Round Workers		Median Household Income	Median Family Income	Per Capita Income
	Men	Women			
Wyoming	46,875	30,047	51,990	63,245	26,925
Campbell County	35,589	57,886	74,757	82,626	30,319
Converse County	28,867	51,053	55,240	66,494	26,658
Johnson County	30,200	39,162	42,849	56,531	24,111
Natrona County	30,093	45,159	50,382	62,869	27,261
Edgerton	14,375	24,583	28,750	33,750	14,331
Gillette	56,682	29,964	69,581	78,377	19,749
Kaycee	62,917	10,625	49,375	51,875	16,584
Midwest	20,625	28,000	30,000	33,125	12,891
Wright	37,361	70,703	84,345	86,136	20,126
Source: U.S. Department of Commerce, Bureau of the Census: American FactFinder, 2000-2010a					

Table 3.10-36 State and Local Sales and Use Tax Distribution for the Counties within 80 km of the Ruth Remote Satellite

Neighboring Counties	Use Tax		Sales Tax		Gross Revenue
	State	Local	State	Local	
Campbell	$15,898,351	$4,456,008	$126,102,084	$36,984,996	$183,441,439
Converse	$2,458,154	$614,198	$19,055,836	$5,763,951	$26,892,139
Johnson	$632,502	$157,787	$12,586,211	$3,146,566	$16,523,066
Natrona	$7,800,467	$1,949,753	$81,932,735	$20,482,918	$112,165,873
Source: Wyoming Department of Administration and Information, Economic Analysis Division, 2009					

Table 3.11-1 Labor Statistics

(thousands)

Industry[1]	NAICS code[2]	2009 Annual average employment[3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work[4]	Cases with job transfer or restriction	
All Industries including State and local government[5]		130,315.8	4,140.7	2,041.5	1,238.5	803.0	2,099.2
Private Industry[5]		111,469.1	3,277.7	1,667.4	965.0	702.4	1,610.4
Goods producing[5]		21,063.8	842.1	457.1	241.3	215.8	385.1
Natural resources and mining[5,6]		1,666.8	62.5	34.9	21.6	13.3	27.6
Agriculture, forestry, fishing and hunting[5]	11	977.7	44.9	24.2	13.8	10.4	20.6
Crop production[5,7]	111	414.2	17.9	9.9	5.3	4.6	8.0
Animal production[5,7]	112	164.2	12.7	6.7	3.7	2.9	6.0
Forestry and logging	113	59.5	2.1	.9	.8	.1	1.2
Fishing, hunting and trapping	114	8.6	.1	([8])	([8])	–	([8])
Support activities for agriculture and forestry	115	331.3	12.1	6.7	3.9	2.8	5.4
Mining[6]	21	689.1	17.7	10.7	7.8	2.9	6.9
Oil and gas extraction	211	158.3	2.6	1.5	1.1	.3	1.1
Mining (except oil and gas)[9]	212	220.6	7.3	4.9	3.8	1.1	2.4
Support activities for mining	213	310.3	7.8	4.4	2.9	1.5	3.5
Construction		6,700.5	251.0	136.5	92.5	44.0	114.5
Construction	23	6,700.5	251.0	136.5	92.5	44.0	114.5
Construction of buildings	236	1,552.0	49.8	25.8	17.0	8.8	24.1
Heavy and civil engineering construction	237	926.2	32.5	18.6	12.3	6.3	13.9
Specialty trade contractors	238	4,222.2	168.7	92.2	63.3	28.9	76.5
Manufacturing		12,696.5	528.6	285.6	127.1	158.5	243.0
Manufacturing	31-33	12,696.5	528.6	285.6	127.1	158.5	243.0
Food manufacturing	311	1,469.7	83.8	53.3	19.2	34.1	30.5
Beverage and tobacco product manufacturing	312	194.2	12.0	8.7	3.3	5.4	3.4
Textile mills	313	137.2	3.7	2.1	1.0	1.2	1.6
Textile product mills[7]	314	137.5	4.6	2.3	1.0	1.4	2.3
Apparel manufacturing[7]	315	193.0	4.5	2.4	.8	1.6	2.1
Leather and allied product manufacturing	316	32.0	1.8	1.0	.3	.7	.8
Wood product manufacturing	321	402.4	24.1	12.3	6.8	5.5	11.8
Paper manufacturing	322	421.8	13.8	7.9	4.0	3.9	5.9

See footnotes at end of table.

Table 3.11-1 Labor Statistics

(thousands)

Industry[1]	NAICS code[2]	2009 Annual average employment[3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work[4]	Cases with job transfer or restriction	
Printing and related support activities	323	562.4	14.4	8.3	3.7	4.6	6.1
Petroleum and coal products manufacturing	324	116.0	1.9	1.1	.6	.5	.8
Chemical manufacturing	325	848.4	20.0	11.7	5.4	6.3	8.3
Plastics and rubber products manufacturing[7]	326	674.2	31.1	17.4	7.6	9.7	13.7
Nonmetallic mineral product manufacturing	327	429.0	21.5	12.5	6.5	6.0	9.0
Primary metal manufacturing	331	404.9	24.2	12.8	5.9	6.9	11.5
Fabricated metal product manufacturing	332	1,441.0	75.8	36.4	18.3	18.1	39.4
Machinery manufacturing[7]	333	1,118.3	47.2	21.9	10.3	11.7	25.3
Computer and electronic product manufacturing	334	1,198.7	19.0	9.2	4.4	4.8	9.8
Electrical equipment, appliance, and component manufacturing	335	405.5	14.0	7.3	2.9	4.3	6.8
Transportation equipment manufacturing[7]	336	1,461.1	72.8	37.5	16.0	21.5	35.3
Furniture and related product manufacturing[7]	337	430.4	20.5	10.5	5.0	5.5	9.9
Miscellaneous manufacturing	339	618.9	18.0	9.2	4.4	4.9	8.8
Service providing		90,405.3	2,435.6	1,210.3	723.7	486.6	1,225.3
Trade, transportation, and utilities[10]		25,648.4	898.3	517.4	295.7	221.7	380.9
Wholesale trade	42	5,850.7	185.9	112.2	62.4	49.8	73.7
Merchant wholesalers, durable goods	423	2,965.3	88.8	47.9	29.1	18.8	40.9
Merchant wholesalers, nondurable goods	424	2,035.9	83.3	55.8	28.8	27.0	27.5
Retail trade	44-45	15,058.9	487.2	254.3	137.0	117.3	233.0
Motor vehicle and parts dealers	441	1,723.8	62.2	28.2	19.3	8.9	34.0
Furniture and home furnishings stores	442	481.8	15.2	8.7	5.3	3.4	6.5
Electronics and appliance stores	443	504.6	7.5	3.6	2.1	1.4	3.9
Building material and garden equipment and supplies dealers	444	1,218.4	57.1	35.5	16.3	19.2	21.6
Food and beverage stores	445	2,888.8	110.6	60.4	31.2	29.2	50.2
Health and personal care stores	446	1,015.9	17.9	7.5	4.9	–	10.5
Gasoline stations	447	843.8	22.4	9.6	6.9	2.7	12.8
Clothing and clothing accessories stores	448	1,419.1	25.9	9.4	6.6	–	16.6
Sporting goods, hobby, book, and music stores	451	641.2	12.4	4.3	2.3	1.9	8.1
General merchandise stores	452	3,061.3	117.5	70.8	31.0	39.7	46.7
Miscellaneous store retailers	453	827.4	24.7	9.1	5.8	3.2	15.7
Nonstore retailers	454	432.8	14.0	7.4	5.2	2.2	6.6
Transportation and warehousing[10]	48-49	4,171.2	206.9	141.0	90.7	50.3	65.9
Air transportation	481	477.5	32.5	24.5	17.5	7.0	8.0
Rail transportation[10]	482	–	4.7	3.4	3.0	.4	1.2

See footnotes at end of table.

Table 3.11-1 Labor Statistics

(thousands)

Industry[1]	NAICS code[2]	2009 Annual average employment[3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work[4]	Cases with job transfer or restriction	
Water transportation	483	66.4	1.9	1.2	0.9	0.4	0.6
Truck transportation	484	1,333.8	63.6	41.7	31.4	10.3	21.9
Transit and ground passenger transportation	485	417.0	15.7	9.7	6.8	2.9	6.0
Pipeline transportation	486	41.0	.8	.3	.2	.1	.5
Scenic and sightseeing transportation	487	28.8	.7	.4	.4	([8])	.3
Support activities for transportation	488	580.0	21.6	14.5	9.7	4.8	7.1
Couriers and messengers	492	560.0	29.4	19.1	10.7	8.3	10.3
Warehousing and storage	493	661.7	36.0	26.1	10.1	15.9	9.9
Utilities	22	567.6	18.4	10.0	5.6	4.4	8.4
Utilities	221	567.6	18.4	10.0	5.6	4.4	8.4
Information		2,932.2	49.3	25.1	17.0	8.1	24.2
Information	51	2,932.2	49.3	25.1	17.0	8.1	24.2
Publishing industries (except Internet)	511	843.5	11.4	5.8	3.1	–	5.6
Motion picture and sound recording industries	512	369.5	7.0	1.2	.9	.3	5.8
Broadcasting (except Internet)	515	315.0	5.7	3.0	1.9	1.1	2.7
Telecommunications[7]	517	1,010.4	23.1	14.4	10.6	3.8	8.7
Data processing, hosting, and related services[7]	518	256.5	1.4	.5	.3	.2	.9
Other information services[7]	519	137.3	.7	.2	.2	([8])	.5
Financial activities		7,904.9	104.6	45.6	30.3	15.4	58.9
Finance and insurance	52	5,813.6	45.3	12.3	8.7	3.7	32.9
Monetary authorities - central bank	521	21.8	.2	.1	.1	([8])	.1
Credit intermediation and related activities	522	2,681.0	25.9	5.8	4.3	1.5	20.1
Securities, commodity contracts, and other financial investments and related activities	523	857.2	1.4	.6	.5	.1	.9
Insurance carriers and related activities	524	2,164.3	17.2	5.7	3.6	2.0	11.5
Funds, trusts, and other financial vehicles	525	89.4	.6	.2	.1	.1	.3
Real estate and rental and leasing	53	2,091.3	59.3	33.3	21.6	11.7	26.0
Real estate[7]	531	1,477.3	39.1	21.2	14.3	6.9	17.8
Rental and leasing services	532	586.8	20.1	12.0	7.3	4.8	8.1
Lessors of nonfinancial intangible assets (except copyrighted works)	533	27.2	.1	.1	.1	–	.1
Professional and business services		17,366.8	246.9	122.7	80.6	42.0	124.2

See footnotes at end of table.

Table 3.11-1 Labor Statistics

(thousands)

Industry[1]	NAICS code[2]	2009 Annual average employment[3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work[4]	Cases with job transfer or restriction	
Professional, scientific, and technical services	54	7,832.1	82.2	34.0	24.0	10.0	48.2
Professional, scientific, and technical services[7]	541	7,832.1	82.2	34.0	24.0	10.0	48.2
Management of companies and enterprises	55	1,933.4	30.3	14.0	7.3	6.7	16.3
Administrative and support and waste management and remediation services	56	7,601.4	134.3	74.7	49.4	25.3	59.7
Administrative and support services[7]	561	7,241.2	115.1	62.7	42.6	20.1	52.4
Waste management and remediation services	562	360.1	19.2	12.0	6.7	5.2	7.2
Education and health services		18,359.5	708.4	318.5	183.3	135.2	389.9
Educational services	61	2,454.9	41.0	14.5	10.4	4.1	26.5
Educational services	611	2,454.9	41.0	14.5	10.4	4.1	26.5
Health care and social assistance	62	15,904.6	667.3	304.0	172.8	131.1	363.4
Ambulatory health care services	621	5,787.4	124.2	41.7	29.4	12.4	82.4
Hospitals	622	4,637.1	270.6	106.0	60.9	45.1	164.6
Nursing and residential care facilities	623	3,060.4	201.5	120.1	57.4	62.6	81.4
Social assistance	624	2,419.7	71.1	36.2	25.1	11.0	34.9
Leisure and hospitality		13,586.3	340.6	138.0	87.7	50.3	202.6
Arts, entertainment, and recreation	71	2,106.0	63.2	29.5	16.6	12.8	33.8
Performing arts, spectator sports, and related industries	711	415.4	16.9	7.9	4.2	–	9.0
Museums, historical sites, and similar institutions	712	129.5	4.3	2.2	1.3	.9	2.1
Amusement, gambling, and recreation industries	713	1,561.1	42.1	19.4	11.1	8.2	22.7
Accommodation and food services	72	11,480.3	277.4	108.5	71.1	37.4	168.9
Accommodation	721	1,884.1	70.6	36.0	19.9	16.1	34.6
Food services and drinking places	722	9,596.2	206.8	72.5	51.2	21.3	134.3
Other services		4,607.1	87.4	43.0	29.0	13.9	44.5
Other services, except public administration	81	4,607.1	87.4	43.0	29.0	13.9	44.5
Repair and maintenance	811	1,199.8	41.2	19.8	14.3	5.5	21.3
Personal and laundry services	812	1,324.5	24.1	13.8	8.2	5.7	10.3

See footnotes at end of table.

Table 3.11-1 Labor Statistics

(thousands)

Industry[1]	NAICS code[2]	2009 Annual average employment[3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work[4]	Cases with job transfer or restriction	
Religious, grantmaking, civic, professional, and similar organizations	813	1,360.7	22.1	9.3	6.5	2.8	12.8
State and local government[5]		18,846.7	862.9	374.1	273.5	100.6	488.8
State government[5]		4,883.2	193.0	96.8	75.8	21.0	96.1
Goods producing[5]		84.9	4.1	2.2	1.9	.3	1.9
Construction		81.8	3.9	2.1	1.8	.3	1.8
Construction	23	81.8	3.9	2.1	1.8	.3	1.8
Heavy and civil engineering construction	237	81.6	3.9	2.1	1.8	.3	1.8
Service providing		4,798.2	188.9	94.6	73.9	20.7	94.2
Education and health services		2,624.7	98.5	48.1	34.1	14.0	50.4
Educational services	61	1,991.2	39.1	15.9	10.2	5.7	23.2
Educational services	611	1,991.2	39.1	15.9	10.2	5.7	23.2
Health care and social assistance	62	633.5	59.4	32.1	23.9	8.2	27.2
Hospitals	622	347.6	34.7	17.3	11.8	5.6	17.4
Public administration		1,991.9	81.8	41.0	35.0	6.0	40.8
Public administration	92	1,991.9	81.8	41.0	35.0	6.0	40.8
Justice, public order, and safety activities	922	765.6	46.3	24.8	21.8	3.0	21.5
Local government[5]		13,963.6	670.0	277.2	197.7	79.6	392.7
Goods producing[5]		111.3	13.4	6.3	4.8	1.5	–
Construction		110.3	13.4	6.2	4.7	1.5	–
Construction	23	110.3	13.4	6.2	4.7	1.5	–
Heavy and civil engineering construction	237	107.6	13.1	6.1	4.6	1.5	–

See footnotes at end of table.

Table 3.11-1 Labor Statistics

(thousands)

Industry[1]	NAICS code[2]	2009 Annual average employment[3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work[4]	Cases with job transfer or restriction	
Service providing		13,852.3	656.6	271.0	192.9	78.1	385.6
Trade, transportation, and utilities[10]		516.0	33.0	19.3	14.2	5.2	13.6
Transportation and warehousing[10]	48-49	270.8	17.9	11.1	9.8	1.4	6.8
Transit and ground passenger transportation	485	220.6	14.8	9.5	8.7	.8	5.2
Utilities	22	241.9	15.0	8.2	4.4	–	6.8
Utilities	221	241.9	15.0	8.2	4.4	–	6.8
Education and health services		8,720.4	312.5	102.1	69.9	32.2	210.4
Educational services	61	7,813.7	259.4	78.1	54.5	23.6	181.3
Educational services	611	7,813.7	259.4	78.1	54.5	23.6	181.3
Health care and social assistance	62	906.8	53.1	24.0	15.4	8.6	29.1
Hospitals	622	660.4	38.5	14.9	9.5	5.4	23.6
Nursing and residential care facilities	623	71.7	6.5	4.3	2.9	1.4	2.3
Public administration		4,075.8	285.3	135.4	99.4	36.0	150.0
Public administration	92	4,075.8	285.3	135.4	99.4	36.0	150.0
Justice, public order, and safety activities	922	1,002.6	107.9	52.1	43.0	9.1	55.9

[1] Totals include data for industries not shown separately.
[2] *North American Industry Classification System* — United States, 2007
[3] Employment is expressed as an annual average and is derived primarily from the BLS-Quarterly Census of Employment and Wages (QCEW) program.
[4] Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction.
[5] Excludes farms with fewer than 11 employees.
[6] Data for Mining (Sector 21 in the *North American Industry Classification System* — United States, 2007) include establishments not governed by the Mine Safety and Health Administration rules and reporting, such as those in Oil and Gas Extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore, estimates for these industries are not comparable to estimates in other industries.
[7] Industry scope changed in 2009.
[8] Data too small to be displayed.
[9] Data for mining operators in this industry are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore, estimates for these industries are not comparable to estimates in other industries.
[10] Data for employers in railroad transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.

NOTE: Because of rounding, components may not add to totals. Dash indicates data do not meet publication guidelines.
SOURCE: Bureau of Labor Statistics, U.S. Department of Labor

Table 3.12-1 Deep Disposal Rates

Well ID	Disposal to Date (gallons)	Reporting Period
SHRUP #6	18,386,280	December 2010 to present
SHRUP #9	10,649,753	March 2011 to present
SHRUP #10	1,801,648	March 2011 to present
Morton 120	13,182,870	October 1, 2010 to September 3, 2011
Vollman	2,253,744	April 2011 to present
DDW-1	19,506,328	October 1, 2010 to September 3, 2011
DDW-2	50,003,621	October 1, 2010 to September 3, 2011

Table 4.7-1 Peak Noise Levels for Equipment Used at the SUA-1548 Project Sites and the Noise Levels at the Six Smith Ranch Testing Sites

	Peak Noise Level (dBA)
Equipment	
Flatbed Trucks	74
Pickup Trucks	75
Dump Trucks	76
Drill Rigs	79
Cranes	81
Bulldozers	82
Scrapers	84
Road grades	85
Jack hammers	89
PVC/Wood Chipper	125
Smith Ranch Test Sites	
Header House 202 in Mine Unit 2	76
Selenium Treatment Facility	79
Satellite No. 1	80
Personnel Sampling (Transfer Truck)	80
Vac-Truck	101
PVC Chipper	125
Source: Cameco Resources, 2010; U.S. Department of Transportation, 2001.	

Table 4.11-1 2010 Race Characteristics for the Census Tracts Included in the 80 kilometers Radius Surrounding Smith Ranch

	State of Wyoming	Campbell County	Converse County	Johnson County	Natrona County		Niobrara County	Platte County	County Tract Total
		Tract 1	Tract 9566	Tract 9551	Tract 14.01	Tract 18	Tract 9752	Tract 9591	
Total (Percent)	563,626 (100.0)	8,924 (100.0)	3,194 (100.0)	2,475 (100.0)	5,620 (100.0)	4,136 (100.0)	2,484 (100.0)	2,092 (100.0)	28,925 (100.0)
White Alone	483,847 (85.9)	8,445 (94.6)	3,068 (96.1)	2,427 (98.1)	5,317 (94.6)	3,931 (95.0)	2,397 (96.5)	1,995 (95.4)	27,580 (95.3)
Black or African American Alone	4,351 (0.8)	13 (0.2)	8 (0.3)	1 (0.04)	33 (0.6)	17 (0.4)	5 (0.2)	3 (0.1)	80 (0.3)
American Indian and Alaska Native Alone	11,784 (2.1)	104 (1.2)	19 (0.6)	9 (0.4)	53 (0.9)	76 (1.8)	21 (0.8)	8 (0.4)	290 (1.0)
Asian Alone	4,279 (0.8)	30 (0.3)	15 (0.5)	4 (0.2)	16 (0.3)	22 (0.5)	9 (0.4)	8 (0.4)	104 (0.4)
Native Hawaiian and Other Pacific Islander Alone	365 (0.1)	1 (0.01)	0 (0.0)	0 (0.0)	9 (0.2)	0 (0.0)	0 (0.0)	1 (0.0)	11 (0.03)
Some Other Race Alone	437 (0.1)	174 (1.9)	49 (1.5)	19 (0.8)	91 (1.6)	36 (0.9)	13 (0.5)	50 (2.4)	432 (1.5)
Two or More Races	8,305 (1.5)	157 (1.8)	35 (1.1)	15 (0.6)	101 (1.8)	54 (1.3)	39 (1.6)	27 (1.3)	428 (1.5)
Hispanic or Latino	50,231 (8.9)	481 (5.4)	163 (5.1)	79 (3.2)	301 (5.4)	97 (2.3)	52 (2.1)	172 (8.2)	1,345 (4.6)
Inside Urbanized Areas	125,706+ (25.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Inside Urban Clusters	196,367+ (39.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Rural	171,709+ (34.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Source: U.S. Department of Commerce, bureau of the Census, 2010b.
+ = Data is from the 2000 U.S. Census (data from the 2010 U.S. Census was unabilable)

Table 4.11-2 2000 Poverty Level Characteristics for the Census Tracts Included in the 80 km Radius Surrounding Smith Ranch

	State of Wyoming	Campbell County	Converse County	Johnson County	Natrona County		Niobrara County	Platte County	Census Tracts Average
		Tract 1	Tract 9566	Tract 9551	Tract 14.01	Tract 18	Tract 9572	Tract 9591	
Total Population	493,782	3,720	1,599	1,569	2,250	2,464	1,338	1,361	2,043
Median Household Income	37,892	55,233	47,250	40,053	38,629	45,481	29,701	27,500	40,550
Per Capita Income	19,134	21,886	22,673	20,595	15,601	21,084	15,757	16,084	19,097
Population Below Poverty Level	54,777	398	157	241	571	191	309	235	300
Percent Below Poverty Level	11.4	8.4	5.4	12.5	16.5	6.1	13.4	11.9	10.6

Source: U.S. Department of Commerce, Bureau of the Census, 2010b

Table 4.11-3 2010 Race Characteristics for the Census Tracts Included in the 80 km Radius Surrounding the North Butte Remote Satellite

	State of Wyoming	Campbell County		Converse County	Johnson County	Natrona County		Census Tracts Total
		Tract 1	Tract 7	Tract 9566	Tract 9551	Tract 14.01	Tract 18	
Total (Percent)	563,626 (100.0)	8,924 (100.0)	8,828 (100.0)	3,194 (100.0)	2,475 (100.0)	5,620 (100.0)	4,136 (100.0)	33,177 (100.0)
White Alone	483,847 (85.9)	8,445 (94.6)	8,299 (94.0)	3,068 (96.1)	2,427 (98.1)	5,317 (94.6)	3,931 (95.0)	31,487 (94.9)
Black or African American Alone	4,351 (0.8)	13 (0.2)	27 (0.3)	8 (0.3)	1 (0.04)	33 (0.6)	17 (0.4)	99 (0.3)
American Indian and Alaska Native Alone	11,784 (2.1)	104 (1.2)	95 (1.1)	19 (0.6)	9 (0.4)	53 (0.9)	76 (1.8)	356 (1.1)
Asian Alone	4,279 (0.8)	30 (0.3)	35 (0.4)	15 (0.5)	4 (0.2)	16 (0.3)	22 (0.5)	122 (0.4)
Native Hawaiian and Other Pacific Islander Alone	365 (0.1)	1 (0.01)	9 (0.1)	0 (0.0)	0 (0.0)	9 (0.2)	0 (0.0)	19 (0.06)
Some Other Race Alone	437 (0.1)	174 (1.9)	196 (2.2)	49 (1.5)	19 (0.8)	91 (1.6)	36 (0.9)	565 (1.7)
Two or More Races	8,305 (1.5)	157 (1.8)	167 (1.9)	35 (1.1)	15 (0.6)	101 (1.8)	54 (1.3)	529 (1.6)
Hispanic or Latino	50,231 (8.9)	481 (5.4)	602 (6.8)	163 (5.1)	79 (3.2)	301 (5.4)	97 (2.3)	1,723 (5.2)
Inside Urbanized Areas	125,706+ (25.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Inside Urban Clusters	196,367+ (39.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Rural	171,709+ (34.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Source: U.S. Department of Commerce, Bureau of the Census, 2010b.
+ = Data is from the 2000 U.S. Census (Data from the 2010 U.S. Census was unavailable).

Table 4.11-4 2010 Race Characteristics for the Census Tracts Included in the 80 km Radius Surrounding the Ruth Remote Satellite

	State of Wyoming	Campbell County		Converse County	Johnson County	Natrona County		Census Tracts Total
		Tract 1	Tract 7	Tract 9566	Tract 9551	Tract 14.01	Tract 18	
Total (Percent)	563,626 (100.0)	8,924 (100.0)	8,828 (100.0)	3,194 (100.0)	2,475 (100.0)	5,620 (100.0)	4,136 (100.0)	33,177 (100.0)
White Alone	483,847 (85.9)	8,445 (94.6)	8,299 (94.0)	3,068 (96.1)	2,427 (98.1)	5,317 (94.6)	3,931 (95.0)	31,487 (94.9)
Black or African American Alone	4,351 (0.8)	13 (0.2)	27 (0.3)	8 (0.3)	1 (0.04)	33 (0.6)	17 (0.4)	99 (0.3)
American Indian and Alaska Native Alone	11,784 (2.1)	104 (1.2)	95 (1.1)	19 (0.6)	9 (0.4)	53 (0.9)	76 (1.8)	356 (1.1)
Asian Alone	4,279 (0.8)	30 (0.3)	35 (0.4)	15 (0.5)	4 (0.2)	16 (0.3)	22 (0.5)	122 (0.4)
Native Hawaiian and Other Pacific Islander Alone	365 (0.1)	1 (0.01)	9 (0.1)	0 (0.0)	0 (0.0)	9 (0.2)	0 (0.0)	19 (0.06)
Some Other Race Alone	437 (0.1)	174 (1.9)	196 (2.2)	49 (1.5)	19 (0.8)	91 (1.6)	36 (0.9)	565 (1.7)
Two or More Races	8,305 (1.5)	157 (1.8)	167 (1.9)	35 (1.1)	15 (0.6)	101 (1.8)	54 (1.3)	529 (1.6)
Hispanic or Latino	50,231 (8.9)	481 (5.4)	602 (6.8)	163 (5.1)	79 (3.2)	301 (5.4)	97 (2.3)	1,723 (5.2)
Inside Urbanized Areas	125,706+ (25.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Inside Urban Clusters	196,367+ (39.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Rural	171,709+ (34.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Source: U.S. Department of Commerce, Bureau of the Census, 2010b.
+ = Data is from the 2000 U.S. Census (Data from the 2010 U.S. Census was unavailable).

Table 4.11-5 2000 Poverty Level Characteristics for the Census Tracts Included in the 80 km Radius Surrounding the North Butte Remote Satellite

	State of Wyoming	Campbell County		Converse County	Johnson County	Natrona County		Census Tract Average
		Tract 1	Tract 7	Tract 9566	Tract 9551	Tract 14.01	Tract 18	
Total Population	493,782	3,720	3,614	1,599	1,569	2,250	2,464	2,275
Median Household Income	37,892	55,233	49,572	47,250	40,053	38,629	45,481	46,036
Per Capita Income	19,134	21,886	19,563	22,673	20,595	15,601	21,084	20,234
Population Below Poverty Level	54,777	398	392	157	241	571	191	325
Percent Below Poverty Level	11.4	8.4	7.9	5.4	12.5	16.5	6.1	9.5
Source: U.S. Department of Commerce, Bureau of the Census, 2010b								

Table 4.11 6 2000 Poverty Level Characteristics for the Census Tracts Included in the 80 km Radius Surrounding the Ruth Remote Satellite

	State of Wyoming	Campbell County		Converse County	Johnson County	Natrona County		Census Tract Average
		Tract 1	Tract 7	Tract 9566	Tract 9551	Tract 14.01	Tract 18	
Total Population	493,782	3,720	3,614	1,599	1,569	2,250	2,464	2,536
Median Household Income	37,892	55,233	49,572	47,250	40,053	38,629	45,481	46,036
Per Capita Income	19,134	21,886	19,563	22,673	20,595	15,601	21,084	20,234
Population Below Poverty Level	54,777	398	392	157	241	571	191	325
Percent Below Poverty Level	11.4	8.4	7.9	5.4	12.5	16.5	6.1	9.5
Source: U.S. Department of Commerce, Bureau of the Census, 2010b								

Table 4.11-7 2010 Race Characteristics for the Census Tracts Included in the 80 km Radius Surrounding the Gas Hills Remote Satellite

	State of Wyoming	Carbon County		Fremont County		Johnson County	Natrona County	Sweetwater County	Census Tracts Total
		Tract 9676	Tract 9681	Tract 3	Tract 9402	Tract 9551	Tract 18	Tract 9716	
Total (Percent)	563,626 (100.0)	2,326 (100.0)	1,639 (100.0)	4,442 (100.0)	8,724 (100.0)	2,475 (100.0)	4,136 (100.0)	2,092 (100.0)	25,814 (100.0)
White Alone	483,847 (85.9)	2,096 (90.1)	1,565 (95.5)	4,107 (92.9)	5,240 (60.1)	2,427 (98.1)	3,931 (95.0)	1,912 (91.4)	21,278 (82.4)
Black or African American Alone	4,351 (0.8)	41 (1.8)	9 (0.5)	911 (0.2)	14 (0.2)	1 (0.04)	17 (0.4)	8 (0.4)	101 (0.4)
American Indian and Alaska Native Alone	11,784 (2.1)	51 (2.2)	9 (0.5)	150 (3.4)	3,125 (35.8)	9 (0.4)	76 (1.8)	33 (1.6)	3,453 (13.4)
Asian Alone	4,279 (0.8)	7 (0.3)	1 (0.1)	28 (0.6)	15 (0.2)	4 (0.2)	22 (0.5)	6 (0.3)	83 (0.3)
Native Hawaiian and Other Pacific Islander Alone	365 (0.1)	2 (0.2)	1 (0.1)	0 (0.0)	4 (0.05)	0 (0.0)	0 (0.0)	2 (0.1)	9 (0.03)
Some Other Race Alone	437 (0.1)	77 (3.3)	32 (2.0)	22 (0.5)	61 (0.7)	19 (0.8)	36 (0.9)	77 (3.3)	324 (1.3)
Two or More Races	8,305 (1.5)	52 (2.2)	22 (1.3)	104 (2.4)	267 (3.1)	15 (0.6)	54 (1.3)	39 (1.9)	553 (2.1)
Hispanic or Latino	50,231 (8.9)	286 (12.3)	66 (4.0)	166 (3.8)	382 (4.4)	79 (3.2)	97 (2.3)	286 (12.3)	1,362 (5.3)
Inside Urbanized Areas	125,706+ (25.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Inside Urban Clusters	196,367+ (39.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Rural	171,709+ (34.8)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Source: U.S. Department of Commerce, bureau of the Census, 2010b.
+ = Data is from the 2000 U.S. Census (data from the 2010 U.S. Census was unavailable)

Table 4 11-8 2000 Poverty Level Characteristics for the Census Tracts Included in the 80 km Radius Surrounding the Gas Hills Remote Satellite

	State of Wyoming	Carbon County		Fremont County		Johnson County	Natrona County	Sweetwater County	Census Tracts Average
		Tract 9676	Tract 9681	Tract 3	Tract 9402	Tract 9551	Tract 18	Tract 9716	
Total Population	493,782	1,048	1,239	2,461	3,241	1,569	2,464	1,163	1,884
Median Household Income	37,892	36,641	30,288	37,321	33,596	40,053	45,481	49,554	38,991
Per Capita Income	19,134	15,639	16,686	19,117	13,296	20,595	21,084	19,350	17,967
Population Below Poverty Level	54,777	195	246	311	1,695	241	191	150	433
Percent Below Poverty Level	11.4	12.8	14.3	7.9	22.9	12.5	6.1	8.8	12.2

Source: U.S. Department of Commerce, Bureau of the Census, 2010b

Location	New or Existing	Instrumentation (as spececified or equivallent)	LLD's
ENVIRONMENTAL SAMPLING			
AS-1 Background Station (Daves water well	existing	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	existing	Global Environmental TLD	10 mrem
	New	Modified Kusnetz Method	0.033 WL
AS-2 Fence Line	existing	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	existing	Global Environmental TLD	10 mrem
	New	Modified Kusnetz Method	0.033 WL
AS-3 Volmans	existing	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	existing	Global Environmental TLD	10 mrem
	New	Modified Kusnetz Method	0.033 WL
AS-4 HUP Overlook	reinstated	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	reinstated	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	reinstated	Global Environmental TLD	10 mrem
	New	Modified Kusnetz Method	0.033 WL
AS-5 Fowlers	reinstated	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	reinstated	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	reinstated	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
AS-6 Reynolds	new	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	existing	Global Environmental TLD	10 mrem
	New	Modified Kusnetz Method	0.033 WL
RG-1 West end of wellfield 4	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	New	Modified Kusnetz Method	0.033 WL
RG-2 Cattle guard into MU K	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
RG-3 Near PSR-2	existing	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NP-1 Smith Ranch Warehouse	new	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NP-2 Smith Ranch Central Processing Plant North end	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NP-3 Smith Ranch Central Processing Plant south end	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL

Table 6-1 Smith Ranch Radiological Sampling Plan

Location	New or Existing	Instrumentation (as spececified or equivallent)	LLD's
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NP-4 Smith Ranch Central Processing Plant east end	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NP-5 Smith Ranch Central Processing Plant west end	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NS-2 Satelltie SR-2 north end	new	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NS-3 Satelltie SR-2 south end	new	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NS-4 Satelltie SR-2 east end	new	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
NS-5 Satelltie SR-2 west end	new	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Global Environmental TLD	10 mrem
	new	Modified Kusnetz Method	0.033 WL
Header House 15-20	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Modified Kusnetz Method	0.033 WL
Header House 9-9	new	Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
	new	Modified Kusnetz Method	0.033 WL
ISOTOPIC ANALYSIS (Mixed DAC)			
Central Processing Plant	New	RADECO Model HD-29A	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
Satellitte Facilitiys	New	RADECO Model HD-29A	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
BETA CAMPAIGN			
α/β/γ Campaign for Personal Contamination	New	To be determined	To be determined
α/β/γ Campaign for Contamination Control	New	To be determined	To be determined
α/β/γ Campaign for Offsite releases	New	To be determined	To be determined
DOSE TO PUBLIC			
Dose to public (on site vendors) At locations NP-1, NS-2 and NS-4	New	Regulated air pump 50 LPM	$^{Nat}U - 1x10^{-16}$, $^{226}Ra - 1x10^{-16}$, $^{230}Th - 1x10^{-16}$, $^{210}Pb - 1x10^{-15}$ uCi/mL
		Radtrak© Type DRNF	$2x10^{-10}$ uCi/mL
		Global Environmental TLD	10 mrem
		Modified Kusnetz Method	0.033 WL
OCCUPATIONAL DOSE			
Evaluate dose for Office and Wellfield workers	New	Global TLD	10 mrem

Table 7-1 Trends in Wyoming Expenditures by Cameco Resources

	2005	2006	2007	2008	2009
Payroll (including benefits)	$4,593,000	$4,952,000	$7,522,100	$8,480,100	$10,525,000
Wyoming Taxes and Royalties[1]	$1,383,400	$1,818,000	$4,393,000	$4,693,000	$3,737,000
Wyoming Vendors Purchases	$10,036,600	$12,311,000	$14,801,000	$24,247,000	$26,065,000
Total Wyoming Expenditures	$16,013,000	$19,081,000	$26,716,100	$37,420,100	$40,327,000

Notes:
1. Wyoming taxes include: Use, Ad Valorem, Severance, and Property.

Table 7-2 Current Economic Impact of Cameco's Wyoming Payroll

Sector	Direct Impacts	Secondary Impacts	Total Impacts
Employment			
Agriculture	0.0	0.1	0.1
Mining	169.0	0.0	169.0
Construction	0.0	0.8	0.8
Manufacturing	0.0	0.2	0.2
TIPU[1]	0.0	1.6	1.6
Trade	0.0	18.1	18.1
Service	0.0	46.8	46.8
Government	0.0	1.0	1.0
Total Jobs	**169.0**	**68.6**	**237.6**
Labor Income			
Agriculture	$0	$772	$772
Mining	$12,483,873	$1,510	$12,485,383
Construction	$0	$36,360	$36,360
Manufacturing	$0	$10,629	$10,629
TIPU[1]	$0	$110,009	$110,009
Trade	$0	$591,290	$591,290
Service	$0	$1,441,098	$1,441,098
Government	$0	$62,280	$62,280
Total Labor Income	**$12,483,873**	**$2,253,948**	**$14,737,821**
Total Output			
Agriculture	$0	$10,001	$10,001
Mining	$12,483,873	$5,783	$12,489,656
Construction	$0	$78,714	$78,714
Manufacturing	$0	$98,676	$98,676
TIPU[1]	$0	$412,586	$412,586
Trade	$0	$1,474,775	$1,474,775
Service	$0	$5,541,677	$5,541,677
Government	$0	$193,823	$193,823
Total Output	**$12,483,873**	**$7,816,035**	**$20,299,908**

Notes:
1. Transportation/Information/Public Utilities

Table 7-3 Current Economic Impact of Cameco's Wyoming Taxes and Royalties

Sector	Direct Impacts	Secondary Impacts	Total Impacts
Employment			
Agriculture	0.0	0.0	0.0
Mining	0.0	0.0	0.0
Construction	0.0	0.2	0.2
Manufacturing	0.0	0.0	0.0
TIPU[1]	0.0	0.5	0.5
Trade	0.0	5.0	5.0
Service	0.0	12.8	12.8
Government and Households	26.3	0.2	26.5
Total Jobs	**26.3**	**18.7**	**45.0**
Labor Income			
Agriculture	$0	$211	$211
Mining	$0	$435	$435
Construction	$0	$10,109	$10,109
Manufacturing	$0	$2,922	$2,922
TIPU[1]	$0	$30,544	$30,544
Trade	$0	$160,900	$160,900
Service	$0	$391,018	$391,018
Government and Households	$3,406,863	$17,140	$3,424,003
Total Labor Income	**$3,406,863**	**$613,279**	**$4,020,142**
Total Output			
Agriculture	$0	$2,740	$2,740
Mining	$0	$1,670	$1,670
Construction	$0	$21,782	$21,782
Manufacturing	$0	$26,992	$26,992
TIPU[1]	$0	$114,013	$114,013
Trade	$0	$400,704	$400,704
Service	$0	$1,499,992	$1,499,992
Government and Households	$3,737,000	$53,000	$3,790,000
Total Output	**$3,737,000**	**$2,120,893**	**$5,857,893**

Notes:
1. Transportation/Information/Public Utilities

Table 7-4 Distribution of Cameco's Economic Impact in Wyoming

Sector	Total Employment	Total Income	Total Output	Percent Employment	Percent Income	Percent Output
Agriculture	0.3	$2,083	$27,944	0.1	<0.1	<0.1
Mining	169.9	$12,579,762	$12,787,292	38.2	46.3	21.6
Construction	84.0	$4,591,729	$12,156,594	18.9	16.9	20.6
Manufacturing	0.9	$50,086	$379,576	0.2	0.2	0.6
TIPU[1]	13.6	$1,194,604	$5,122,825	3.1	4.4	8.7
Trade	48.1	$1,928,153	$12,757,019	10.8	7.1	21.6
Service	99.4	$3,267,923	$11,721,242	22.4	12.0	19.8
Government	28.4	$3,545,234	$4,133,976	6.4	13.1	7.0
Total	**444.6**	**$27,159,574**	**$59,086,468**	**100**	**100**	**100**

Notes:
1. Transportation/Information/Public Utilities

Table 7-5 Current Economic Impact of Cameco's Wyoming Vendor Purchases

Sector	Direct Impacts	Secondary Impacts	Total Impacts
Employment			
Agriculture	0.0	0.2	0.2
Mining	0.8	0.1	0.9
Construction	82.1	0.9	83.0
Manufacturing	0.0	0.7	0.7
TIPU[1]	8.8	2.7	11.5
Trade	11.7	13.3	25.0
Service	2.1	37.7	39.8
Government	0.0	0.9	0.9
Total Jobs	**105.5**	**56.5**	**162.0**
Labor Income			
Agriculture	$1	$1,099	$1,100
Mining	$77,989	$15,955	$93,944
Construction	$4,495,164	$50,096	$4,545,260
Manufacturing	$739	$35,796	$36,535
TIPU[1]	$881,717	$172,334	$1,054,051
Trade	$694,468	$481,495	$1,175,963
Service	$94,954	$1,340,853	$1,435,807
Government	$1,092	$57,859	$58,951
Total Labor Income	**$6,246,124**	**$2,155,487**	**$8,401,611**
Total Output			
Agriculture	$0	$15,203	$15,203
Mining	$237,496	$58,470	$295,966
Construction	$11,959,805	$96,293	$12,056,098
Manufacturing	$0	$253,908	$253,908
TIPU[1]	$4,016,458	$579,768	$4,596,226
Trade	$9,666,157	$1,215,383	$10,881,540
Service	$185,084	$4,494,489	$4,679,573
Government	$0	$150,153	$150,153
Total Output	**$26,065,000**	**$6,863,667**	**$32,928,667**

Notes:
1. Transportation/Information/Public Utilities

Table 7-6 Current Economic Impact Summary for Cameco in Wyoming

	Employment (jobs)	Labor/Household Income	Total Output	Average Earnings Per Job
Direct impacts				
Payroll (including benefits)	169.0	$12,483,873	$12,483,873	$73,869
Wyoming Taxes and Royalties	26.3	$3,406,863	$3,737,000	$50,299[1]
Wyoming Vendors	105.5	$6,246,124	$26,065,000	$59,205
Total Direct Impacts	**300.8**	**$22,136,860**	**$42,285,873**	**$66,665[1]**
Secondary Impacts				
Payroll (including benefits)	68.6	$2,253,948	$7,816,035	$32,856
Wyoming Taxes and Royalties	18.7	$613,279	$2,120,893	$32,796
Wyoming Vendors	56.5	$2,155,487	$6,863,667	$38,150
Total Secondary Impacts	**143.8**	**$5,022,714**	**$16,800,595**	**$34,928**
Total Impacts				
Payroll (including benefits)	237.6	$14,737,821	$20,299,908	$62,028
Wyoming Taxes and Royalties	45.0	$4,020,142	$5,857,893	$43,026[1]
Wyoming Vendors	162.0	$8,401,611	$32,928,667	$51,862
Total Impacts	**444.6**	**$27,159,574**	**$%9,086,468**	**$56,400[1]**
Uranium Mining Multipliers	2.6	2.2		

Notes:
1. Royalty payments excluded from calculation.

Table 7-7 Economic Impact of Construction Expenditures

	Employment (jobs)	Labor Earnings	Total Output	Average Earnings Per Job
2011 Capital Expenditures				
Direct Impacts	96.9	$5,385,010	$17,000,000	$55,573
Secondary Impacts	45.1	$1,843,018	$5,845,766	$40,865
Total Impacts	**142.0**	**$7,228,028**	**$22,845,766**	**$50,902**
2012 Capital Expenditures				
Direct Impacts	164.9	$9,373,046	$30,000,000	$56,841
Direct Impacts	76.7	$3,207,922	$10,134,035	$41,824
Total Impacts	**241.6**	**$12,580,968**	**$40,134,035**	**$452,074**
2013 Capital Expenditures				
Direct Impacts	185.5	$10,780,415	$35,000,000	$58,115
Secondary Impacts	86.3	$3,689,595	$11,616,174	$42,753
Total Impacts	**271.8**	**$14,470,010**	**$46,616,174**	**$53,238**
3-Year Summary	**2011**	**2012**	**2013**	**Total**
Expenditures	$17,000,000	$30,000,000	$35,000,000	$82,000,000
Employment	142.0	241.6	271.8	655.4
Labor Earnings	$7,228,028	$12,580968	$14,470,010	$34,279,006
Average Earnings per Job	**$50,902**	**$52,074**	**$53,238**	**$52,302**

Table 7-8 Economic Impact of Cameco's Expanded Production

	Employment (jobs)	Labor/Household Income	Total Output
Direct Impacts			
Payroll (including benefits)	320.6	$23,681,074	$23,681,074
Wyoming Taxes and Royalties	49.9	$6,462,592	$7,088,840
Wyoming Vendors	200.1	$11,848,481	$49,443,566
Total Direct Impacts	**570.6**	**$41,992,147**	**$80,213,480**
Secondary Impacts			
Payroll (including benefits)	130.1	$4,275,589	$14,826,497
Wyoming Taxes and Royalties	35.5	$1,163,349	$4,023,193
Wyoming Vendors	107.2	$4,088,815	$13,019,918
Total Direct Impacts	**272.8**	**$9,527,753**	**$31,869,608**
Total Impacts			
Payroll (including benefits)	450.7	$27,956,663	$38,507,571
Wyoming Taxes and Royalties	85.4	$7,625,941	$11,112,032
Wyoming Vendors	307.3	$15,937,296	$62,463,485
Total Direct Impacts	**843.4**	**$51,519,900**	**$112,083,088**

Notes:
1. Royalty payments excluded from calculation.