	Activity	Date	Duration	Agency Representation and Participation	Topics
				12 attendees. BWG members & participants: 2 SNWA, 2 FWS, 1 BLM, 2 NPS. TRP member: 1 BLM. EC	Inviting NDOW and UDWF organizations; determining s hydrologic and biologic sigr
1	BWG/TRP/EC meeting	2006 12/18	n.a.	members: 1 SNWA, 1 NPS, 1 FWS. 1 DOI liaison.	monitoring opportunities on
		2007 02/00	1.1		Letter of invitation to NDO
2	BWG working meeting (call)	2007 02/09	1 hour	n.a.	agenda for next meeting Collaborative and iterative v
					Introduction/background; go
					description of groundwater-
					attributes, and indicators to
					range of variation and unrea
				14 contributors. BWG members & participants: 2 SNWA,	e
				2 FWS, 2 BLM, 1 NPS, 1 BIA, 3 NDOW, 1 UDWR.	objectives, designs and prote
				Invited: 1 BIO-WEST, 1 KS2. Reviewed by BWG,	ecological modeling; identif
				agency scientists (SNWA, FWS, BLM, NPS, BIA,	analysis and reporting; mon
3	Monitoring plan development/writing	2007 02/12 - 2009 02/18		NDOW, UDWR), and EC.	models.
					Review of Stipulated Agree
				14 attendees. BWG members & participants: 1 SNWA, 2	monitoring programs; data a
				FWS, 2 BLM, 1 NPS, 1 BIA, 3 NDOW, 1 UDWR. EC	writing/revision (outline and
4	BWG working meeting	2007 02/23	4 hours	member: 1 NPS. 1 BLM EIS liaison. 1 DOI liaison.	monitoring site selection
					Identification of experts acro
					monitoring; monitoring plan
				14 attendees. BWG members & participants: 1 SNWA, 2	objectives); identification of
				FWS, 2 BLM, 1 NPS, 1 BIA, 3 NDOW, 1 UDWR. EC	determining trends and prov
5	BWG working meeting	2007 03/29	7 hours	member: 1 FWS. 1 BLM EIS liaison. 1 DOI liaison.	influenced ecosystems, attril
	0 0			10 attendees. BWG members & participants: 1 SNWA, 2	
				FWS, 1 NPS, 1 BIA, 1 NDOW, 1 UDWR. EC: 2 FWS. 1	
6	BWG planning meeting (call)	2007 04/19	1 hour	BLM EIS liaison.	Planning for potential exper-
					Overview of NSE Ruling on
				12 attendees. BWG members & participants: 1 SNWA, 2	
				FWS, 1 NPS, 1 BIA, 2 BLM, 3 NDOW, 1 UDWR. 1 DOI	-
7	BWG working meeting	2007 05/08	6 hours	liaison.	Monitoring Program
					Updates and feedback; CAP
8	EC/BWG core team meeting (call)	2007 05/11	1 hour	n.a.	meet both Stipulation and N
				15 store by DWC much a construction of the construction	TNC presentation on CAP p
				15 attendees. BWG members & participants: 1 SNWA, 2	selection; biologic rationale
				FWS, 1 BLM, 1 NPS, 1 BIA, 3 NDOW, 1 UDWR. EC	sites; coupling spring monite
9	BWG working mosting	2007 06/05	8 hours	member: 1 FWS. 1 BLM EIS liaison. 1 DOI liaison.	writing/revision (introductio collaboration
7	BWG working meeting	2007 00/03	0 110018	Invited: 1 TNC, 1 NSE.	conaboration

VR to participate on BWG; expert advice from outside g sites to monitor based on likelihood of impacts and ignificance; SNWA pump tests; available baseline data; on SNWA deeded lands; BWG and TRP collaboration OW and UDWR to participate in BWG; topics and

writing/review/revision process.

goals and objectives; CAP process; selection and er-influenced ecosystems, species, sites, key ecological to monitor; TRP hydrologic monitoring; determining easonable adverse effect; criteria for initiating on; adaptive framework and phased approach; sampling otocols; gathering external data; discussion on tification of potential research needs; data management, onitoring plan implementation and schedule; conceptual

eement; NPS framework for developing inventory and a and reports shared, ftp site created; monitoring plan and introduction/background); available baseline data;

cross various ecological fields; landscape-level lan writing/revision (introduction/background and of monitoring goals, including establishing baseline, oviding early warning; potential groundwatertributes and species to monitor; baseline data gathering

ert workshop

on SNWA Spring Valley applications; monitoring plan tion/background and objectives); sensitive species in ering; USGS Great Basin Integrated Landscape

AP workshop; BWG chairperson rotation; monitoring to NSE requirements

P process; hydrologic and biologic monitoring site le and BWG recommendation to TRP re: piezometer nitoring with monitoring well network; monitoring plan tion/background and objectives); BWG and TRP

	Activity	Date	Duration	Agency Representation and Participation	Topics
				16 attendees. BWG members & participants: 1 SNWA, 2 FWS, 1 BLM, 1 NPS, 1 BIA, 3 NDOW, 1 UDWR. TRP member: 1 NPS. EC member: 1 FWS. 1 BLM EIS	
10	BWG/TRP working meeting (call)	2007 06/05	1 hour	liaison. 1 DOI liaison. Invited: 1 TNC, 1 NSE.	Monitoring site selection
11	BWG working meeting	2007 07/10	4 hours	13 attendees. BWG members & participants: 2 SNWA, 2FWS, 2 BLM, 2 NPS, 1 BIA, 1 NDOW, 1 UDWR. 1BLM EIS liaison. Invited: 1 NSE.	Potential indicators to monit strategy for developing the r
12	BWG/TRP working meeting	2007 07/10	5 hours	22 attendees. BWG members & participants: 2 SNWA, 2 FWS, 2 BLM, 2 NPS, 1 BIA, 1 NDOW, 1 UDWR. TRP members & participants: 3 SNWA, 2 BLM, 1 NPS, 1 BIA 1 BLM EIS liaison. Invited: 1 USFS, 2 NSE.	. Likelihood of impacts of dif biologic significance; monit
13	BWG/TRP working meeting	2007 07/11	7 hours	22 attendees. BWG members & participants: 2 SNWA, 2 FWS, 2 BLM, 2 NPS, 1 BIA, 1 NDOW, 1 UDWR. TRP members & participants: 3 SNWA, 2 BLM, 1 NPS, 1 BIA 1 BLM EIS liaison. Invited: 1 USFS, 2 NSE.	. Field tour and evaluation of and biologic monitoring site
14	BWG/TRP working meeting (call)	2007 07/31	1 hour	27 attendees. BWG members & participants: 2 SNWA, 2 FWS, 1 BLM, 2 NPS, 1 BIA, 3 NDOW, 1 UDWR. TRP members: 1 SNWA, 1 BLM, 1 NPS. Invited: 2 FWS, 2 SNWA, 2 NDOW, 2 TNC, 2 BIO-WEST, 1 GBBO, 1 NSE.	IBMA hydrogeology; potent re: spring locations most like withdrawal; connecting hydr monitoring site selection
15	BWG working meeting	2007 07/31-08/02	21 hours	27 attendees. BWG members & participants: 2 SNWA, 2 FWS, 1 BLM, 1 BIA, 2 NPS, 3 NDOW, 1 UDWR. TRP members: 1 SNWA, 1 BLM, 1 NPS. EC member: 1 FWS. Invited: 1 FWS, 2 NDOW, 2 SNWA, 2 TNC, 1 GBBO, 2 BIO-WEST, 1 NSE.	CAP Workshop: TNC press lessons learned from Edward selection of groundwater-inf attributes and indicators to n targets, and early warning in exceedance curve; indicator unreasonable adverse effect
16	BWG/TRP/EC meeting	2007 08/02	4 hours	 22 attendees. BWG members & participants: 2 SNWA, 2 FWS, 1 BLM, 1 BIA, 2 NDOW, 1 UDWR. TRP members: 1 SNWA, 1 BLM, 1 NPS. EC members: 1 BIA, 2 FWS, 1 NPS, 2 BLM, 2 SNWA. 1 DOI liaison. Invited: 1 NSE. 13 attendees. BWG members & participants: 1 BIA, 2 	Effectiveness of CAP proces groundwater-influenced eco indicators to monitor and re- site selection; monitoring ke
17	BWG working meeting	2007 09/10-11	13 hours	FWS, 1 BLM, 1 SNWA, 1 NPS, 1 NDOW, 1 UDWR. 1 BLM EIS liaison. Invited: 1 BIO-WEST, 1 GBBO, 2 TNC.	Selection of groundwater-in indicators to monitor using

onitor; use of historic data; monitoring site selection; ne monitoring plan; TNC facilitation of the CAP process

different spring locations; sites of hydrologic and nitoring site selection

of potential monitoring sites; selection of hydrologic ites

ential effects of groundwater drawdown; TRP guidance likely to be impacted by SNWA groundwater ydrologic changes to biologic effects; hydrologic

resentation on CAP process; BIO-WEST presentation on vards Aquifer monitoring program; conceptual models; influenced ecosystems, sites, species, key ecological o monitor based on likelihood of effects, conservation g indication of effects using CAP process; flow tor ratings; mitigation opportunities; defining ect and ecological thresholds

cess in developing the monitoring plan re: selecting cosystems, species, sites, key ecological attributes and re: consensus-based decision making; TRP piezometer key representative areas; adaptive monitoring approach

influenced ecosystems, key ecological attributes and g CAP process

	Activity	Date	Duration	Agency Representation and Participation	Topics
					Monitoring well locations; se
					key ecological attributes and
					Dynamics writing/revision T
				17 attendees. BWG members & participants: 2 SNWA, 2	writing/revision (objectives)
				FWS, 1 BLM, 1 BIA, 1 NPS, 2 NDOW, 1 UDWR. 1 DOI	impacts to perennial streams
				liaison. 1 BLM EIS liaison. Invited: 1 GBBO, 2 BIO-	down to the valley floor; US
18	BWG working meeting	2007 10/10	8 hours	WEST, 2 TNC.	in/near GBNP to groundwate
10		2007 10/21	1 1	A stress loss DWC second and 2 SNWA 1 EWC 1 DLM	T
19	BWG core team planning meeting (call)	2007 10/31	1 hour	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next r
20	EC/BWG core team meeting (call)	2007 11/06	1 hour	n.a.	Updates and feedback; status
					KS2 presentation on lessons
				14 attendees. BWG members & participants: 1 BIA, 2	SNPLMA proposals in IBM.
				FWS, 1 BLM, 1 SNWA, 1 NPS, 1 NDOW, 1 UDWR. EC	
					indicators; reference sites; na
21	BWG working meeting	2007 11/06	7 hours	KS2, 2 TNC.	monitoring site selection; TN
				9 attendees. BWG members & participants: 1 SNWA, 2	
				FWS, 1 BLM, 1 NDOW. TRP members: 1 NPS, 1	Likelihood of impacts to per
22	BWG/TRP working meeting (call)	2007 11/09	1 hour	SNWA. Invited: 1 USGS, 1 NSE.	stream diversions down to th
23	BWG core team planning meeting (call)	2007 12/05	1 hour	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next r
23	bit of core team planning incetting (early	2007 12/03	1 Hour		Criteria for and selection of
				16 attendees. BWG members & participants: 1 BIA, 2	monitor; overview of BWG
				FWS, 1 BLM, 2 SNWA, 1 NDOW, 1 UDWR. 1 BLM	monitoring plan; SNPLMA
				EIS liaison. Invited: 1 SNWA, 1 NDOW, 1 BIO-WEST, 1	(NPS), spring/springsnail res
24	BWG working meeting	2007 12/13	7 hours	KS2, 1 GBBO, 2 TNC.	Stipulation monitoring plan
25	BWG core team planning meeting (call)	2008 01/08	1 hour	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next r
					Updates and feedback; peer
26	EC/BWG/TRP core team meeting (call)	2008 01/02	1 hour	n.a.	comments on SNPLMA proj
					Conceptual ecological mode
					Simulation Model (EDYS);
				16 attendees. BWG members & participants: 1 BIA, 2	writing/revision (objectives)
				FWS, 1 BLM, 2 SNWA, 1 NPS, 2 NDOW, 1 UDWR. 1	direct and habitat-based mor
				BLM EIS liaison. 1 DOI liaison. Invited: 2 BIO-WEST,	influenced ecosystems, speci
27	BWG working meeting	2008 01/14-15	12 hours	1 KS2, 1 TNC.	monitor
				6 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	
28	BWG core team working meeting	2008 01/15	5 hours	Invited: 1 BIO-WEST, 1 KS2.	Planning meeting with consu
29	BWG core team planning meeting (call)	2008 02/28	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next r

s selection of groundwater-influenced ecosystems, sites, nd indicators to monitor using CAP process; Vegetation Tool (VDDT); ecological modeling; monitoring plan es); overview of TRP Carbonate Tour; likelihood of ns originating in the mountain block; stream diversions JSGS 2006 report on susceptibility of surface water ater withdrawal

t meeting

tus of monitoring plan; End-of-Year report

ns learned from Owens Valley monitoring program; MA re: spring/springsnail research (Sada/DRI) and ation monitoring plan development; early warning natural and acceptable variation; indicator ratings; TNC Spring Habitat Conservation Plan

erennial streams originating in the mountain block; the valley floor

t meeting

of sites, key ecological attributes and indicators to /G core team update to EC; peer review of draft A proposals in IBMA re: Bonneville cutthroat trout research (Sada/DRI), and TNC facilitation of an development

t meeting

er review of biological monitoring plan; BWG and TRP roposals

dels; KS2 presentation on Ecological Dynamics); peer review of draft monitoring plan; monitoring plan es); BWG End-of-Year report to EC; reference sites; nonitoring; criteria for and selection of groundwaterecies, sites, key ecological attributes and indicators to

sultants; monitoring plan development

t meeting

	Activity	Date	Duration	Agency Representation and Participation	Topics
					FWS 90-day finding on nort
				17 attendees. BWG members & participants: 1 BIA, 2	plan; TRP hydrologic monit
				FWS, 2 BLM, 2 SNWA, 1 NPS, 1 NDOW, 1 UDWR.	Lake Creek, and piezometer
				TRP member: 1 SNWA (TRP update). 1 BLM EIS	direct and habitat-based mor
30	BWG working meeting	2008 03/07	7 hours	liaison. Invited: 1 BIO-WEST, 2 KS2, 1 GBBO, 1 TNC.	monitoring
31	BWG core team planning meeting (call)	2008 03/20	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next :
					BWG End-of-Year report to
				16 attendees. BWG members & participants: 1 BIA, 2	protocols, conceptual model
				FWS, 2 BLM, 2 SNWA, 2 NDOW, 1 UDWR. 1 BLM EIS	-
32	BWG working meeting	2008 03/27-28	12 hours	liaison. Invited: 1 BIO-WEST, 1 KS2, 2 TNC, 1 NSE.	direct and habitat-based mor
	0 0			6 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	
33	BWG core team working meeting	2008 03/28	5 hours	Invited: 1 BIO-WEST, 1 KS2.	Monitoring plan writing/rev
				14 attendees. BWG members & participants: 1 BIA, 2	BWG End-of-Year report to
				FWS, 1 BLM, 1 SNWA, 1 NPS, 2 NDOW. 1 BLM EIS	habitat-based monitoring; cr
34	BWG working meeting	2008 04/21-22	10 hours	liaison. Invited: 2 BIO-WEST, 2 KS2, 1 TNC.	writing/revision (framework
					BWG presentation on goals/
					BWG/TRP coordination; TF
				26 attendees. BWG members & participants: 1 BIA, 2	activities; likelihood of impa
				FWS, 1 BLM, 1 SNWA, 1 NPS, 2 NDOW. TRP	block; interbasin monitoring
				members: 2 SNWA, 2 BLM, 1 NPS, 1 FWS, 1 BIA. EC	paths to southern Snake Val
				member: 1 SNWA, 2 BLM, 1 MrS, 1 FWS, 1 BIA. EC member: 1 SNWA. 1 BLM EIS liaison. Invited: 2 BIO-	connectivity between Spring
35	BWG/TRP working meeting	2008 04/22	3 hours	WEST, 2 KS2, 1 TNC, 1 SNWA, 2 USGS, 1 NSE.	aquifer, and surface waters;
- 33	BWG/IRF working meeting	2008 04/22	5 110018	WEST, 2 KS2, 1 TNC, 1 SN WA, 2 USOS, 1 NSE.	Updates and feedback; BWC
					status of monitoring plan; B
					plan; BWG/TRP coordination
36	EC/BWG core team meeting (cell)	2008 05/07	1 hour	na	monitoring site selection; pr
50	EC/BWG core team meeting (call)	2000 03/07	1 HOUL	n.a.	Selection of nested targets; s
					review of draft monitoring p
					protocols); BIO-WEST pres
				14 attendees. BWG members & participants: 1 SNWA, 2	techniques for springs and a
				FWS, 1 BLM, 1 NPS, 1 BIA, 2 NDOW, 1 UDWR. 1	from 2004-2006 ecological
				BLM EIS liaison. 1 DOI liaison. Invited: 1 BIO-WEST, 1	-
37	BWG working meeting	2008 05/19-21	24 hours	KS2, 1 TNC.	BWG/TRP coordination;
38	BWG core team planning meeting (call)	2008 06/11	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next
					BWG/TRP coordination; Sti
					writing/revision (introductio
				13 attendees. BWG members & participants: 2 SNWA, 2	management/analysis/report
				FWS, 1 BLM, 1 NPS, 1 BIA, 2 NDOW, 1 UDWR. 1	models); ecological modelin
39	BWG working meeting	2008 06/18-19	15 hours	BLM EIS liaison. Invited: 1 BIO-WEST, 1 KS2.	integrating the monitoring p

orthern leopard frog; peer review of draft monitoring nitoring network, gain/loss study of Big Spring Creek / ters; monitoring plan writing/revision (methodology); nonitoring; GBBO expert advice re: bird and bird habitat

xt meeting

to EC; monitoring plan writing/revision (framework, lels); reference sites; prep for BWG/TRP joint meeting; key ecological attributes and indicators to monitor; nonitoring

evision (framework and protocols) to EC; prep for BWG/TRP joint meeting; direct and criteria for nested targets; monitoring plan ork, protocols, conceptual models)

Is/responsibilities, approach and monitoring sites; TRP update on hydrologic monitoring plan and macts to perennial streams originating in the mountain ng zone; water sources and potential groundwater flow Yalley/Big Springs complex; USGS SNPLMA study on ing and Snake Valley aquifers, regional carbonate s; Water sources for Yelland Playa in Spring Valley WG End-of-Year report; peer review of monitoring plan; BWG presentation to EC and EC review of monitoring tion; adaptive approach to monitoring and management; private land access

s; selection of sites and indicators to monitor; peer g plan; monitoring plan writing/revision (framework, resentation and recommendations re: sampling l aquatic species in Spring Valley, and lessons learned al evaluation in 102 springs in southeastern Nevada; pommendation re: vegetation sampling techniques;

kt meeting

Stipulation data Exchange website; monitoring plan tion/background, objectives, protocols, data orting, plan implementation/schedule, conceptual ling; ecological thresholds; BLM presentation on g plan into the EIS

	Activity	Date	Duration	Agency Representation and Participation	Topics
				18 attendees. BWG members & participants: 2 SNWA, 2	
				FWS, 1 BLM, 1 NPS, 1 BIA, 2 NDOW, 1 UDWR. TRP	
				members: 1 SNWA, 1 NPS, 1 FWS. 1 BLM EIS liaison.	
40	BWG/TRP working meeting (call)	2008 06/19	1 hour	Invited: 1 BIO-WEST, 1 KS2, 2 NSE.	Water quality sampling; pro-
41	EC/BWG core team meeting (call)	2008 07/02	1 hour	n.a.	Updates and feedback
					
42	BWG core team planning meeting (call)	2008 07/17	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next i
					Final review of monitoring p
43	BWG working meeting	2008 07/22-24	27 hours	n.a.	design
					Prep for presentations to EIS
44	BWG core team working meeting (call)	2008 08/06	1 hour	2 attendees. BWG members: 1 SNWA, 1 FWS.	monitoring plan
					Prep for presentation to EIS
45	BWG core team working meeting (call)	2008 08/11	4 hours	3 attendees. BWG members: 2 SNWA, 1 FWS.	monitoring plan
				11 attendees. BWG members & participants: 2 SNWA, 2	Internal agency review (SNV
				FWS, 1 BLM, 1 BIA, 1 UDWR. 1 BLM EIS liaison.	draft monitoring plan; prep f
46	BWG working meeting	2008 08/13	4 hours	Invited: 1 BIO-WEST, 1 KS2, 1 FWS BRT.	EC
					BWG presentation of draft b
				25 attendees. BWG members & participants: 2 SNWA, 2	adaptive framework, phased
				FWS, 1 BLM, 1 BIA, 1 UDWR. TRP members: 1	groundwater-influenced eco
				SNWA, 1 FWS, 1 NPS, 2 BLM. EC members: 2 SNWA,	attributes/indicators, direct a
				1 FWS, 1 BLM, 1 NPS, 1 BIA. 1 BLM EIS liaison. 1	implementation); defining ad
				DOI liaison. Invited: 1 BIO-WEST, 1 KS2, 1 FWS BRT,	effect; determining baselines
47	BWG/TRP/EC meeting	2008 08/13	4 hours	2 NSE.	indicators; peer review; ecol
		2000 00/15	+ nouis	3 attendees. BWG members: 1 SNWA, 1 FWS. 1 BLM	
48	BWG core team working meeting (call)	2008 10/02	4 hours	EIS liaison.	Review of EC and internal a
				3 attendees. BWG members: 1 SNWA, 1 FWS. 1 BLM	
49	BWG core team working meeting	2008 10/03	2 hours	EIS liaison.	Review of EC and internal a
50	BWG core team planning meeting (call)	2008 10/06	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next 1
51	BWG working meeting	2008 10/08-09	17 hours	n.a.	Review of EC and internal a
					Updates and feedback; EC re
52	EC/BWG core team meeting (call)	2008 10/21	1 hour	n.a.	private land access
53	BWG core team planning meeting (call)	2008 10/21	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next i
54	BWG core team working meeting	2008 10/20-21	14 hours	2 attendees. BWG members: 1 SNWA, 1 FWS.	Revision of draft monitoring
					Revision of draft monitoring
55	BWG working meeting	2008 11/03-04	17 hours	n.a.	comments on draft Plan; over
56	BWG core team working meeting	2008 11/18-20	26 hours	2 attendees. BWG members: 1 SNWA, 1 FWS.	Revision of draft monitoring

otocols;	monitoring	site	selection

t meeting

g plan (draft 1); field protocols; springsnail sampling

EIS Natural Resources Group and EC on draft biological

IS Natural Resources Group on draft biological

NWA, FWS, BLM, BIA, NPS, NDOW, UDWR) of the p for presentation of draft biological monitoring plan to

t biological monitoring plan (goals and objectives, ed approach, CAP process, criteria for and selected cosystems/sites/species/key ecological t and habitat-based monitoring, and plan acceptable range of variation and unreasonable adverse nes, trends, relationships and effects; early warning ological modeling; BWG/TRP/EC coordination

agency comments on draft Plan

agency comments on draft Plan

t meeting

l agency comments on draft monitoring plan review of monitoring plan; monitoring plan revisions;

t meeting

ng plan

ing plan; monitoring site selection; review of NSE overview of BWG core team update to EC ing plan

	Activity	Date	Duration	Agency Representation and Participation	Topics
					Poster abstract on biological
				9 attendees. BWG members & participants: 2 SNWA, 1	Association (NWRA) confer
				FWS, 1 BLM, 1 NPS, 1 NDOW. Invited: 1 BIO-WEST, 1	acceptable ranges of variation
57	BWG working meeting	2008 12/03-04	12 hours	KS2, 1 TNC.	vegetation sampling method
				3 attendees. BWG members: 1 SNWA, 1 FWS. Invited: 1	Conceptual model diagrams
58	BWG core team working meeting	2008 12/12	11 hours	TNC.	stressors.
					Updates and feedback; priva
					Pine County Advisory Board
59	EC/BWG core team meeting (call)	2008 12/16	1 hour	n.a.	biological and hydrologic m
				3 attendees. BWG members: 1 SNWA, 1 FWS. Invited: 1	Conceptual model diagrams
60	BWG core team working meeting (call)	2008 12/22	1 hour	TNC.	stressors.
				3 attendees. BWG members: 1 SNWA, 1 FWS. Invited: 1	Conceptual model diagrams
61	BWG core team working meeting (call)	2009 01/06	2 hours	TNC.	stressors.
					Updates and feedback; EC re
					private land access; BWG/T
					Board and White Pine Coun
62	EC/BWG core team meeting (call)	2009 01/07	1 hour	n.a.	monitoring plans
63	BWG core team planning meeting (call)	2009 01/15	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next i
					Updates and feedback; BWC
					Advisory Board and White I
64	EC/BWG core team meeting (call)	2009 01/21	1 hour	n.a.	hydrologic monitoring plans
					C
				11 - the last DWC merels of 9 merels in a feature 1 CNWA 1	Conceptual model diagrams
				11 attendees. BWG members & participants: 1 SNWA, 1	stressors; private land access
65	DWC merting meeting	2000 01/21 22	16 hours	FWS, 1 BLM, 1 BIA, 1 UDWR. 1 BLM EIS liaison.	monitoring plan; vegetation
65	BWG working meeting	2009 01/21-22	16 hours	Invited: 1 FWS BRT, 1 BIO-WEST, 1 KS2, 2 TNC.	monitoring plan to White Pit
66	DWC are contation	2000 02/02	2 h a una	1 attendee. BWG member: 1 FWS.	BWG poster presentation at monitoring plan
66	BWG presentation	2009 02/03	2 hours	8 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	
					BWG/TRP/EC presentation
67	BWG/TRP/EC presentation	2009 02/17	2 hours	TRP members: 1 SNWA, 1 BLM. EC: 1 SNWA. Invited: 1 NSE.	biological and hydrologic m
07	Bw0/IKF/EC presentation	2009 02/17	2 110015	7 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	
				TRP members: 1 SNWA, 1 BLM. EC member: 1 SNWA	BWG/TRP/DOI presentation
68	BWG/TRP/DOI presentation	2009 02/25	2 hours	1 DOI liaison.	the biological and hydrologi
00	b w 0/ I Kr/DOI presentation	2007 02/23	2 110018		Transmittal of Biological M
69	Completion of monitoring plan	2009 02/19			(BWG, 2009) to BWG mem
09	completion of monitoring plan	2007 02/17			Development of secure data
					storage, security, and distrib
70	Database development and live export	2009 03/02 - 2011 06/06	270 person-days	SNWA	data to Stipulation Parties.
70	Database development and nye export	2007 03/02 - 2011 00/00			Northern leopard frog survey
71	Biological data collection	2009 03/12-05/28	40 person-days	SNWA. UDWR assist.	Monitoring Plan for the Spri
/1	Diological data conection	2007 03/12-03/20	40 person-days		intointoining i fail for the spin

cal monitoring plan for Nevada Water Rights ference; revision of draft monitoring plan; defining tion and ecological thresholds; springsnail and odology

ns of groundwater-influenced ecosystem drivers and

ivate land access; BWG/TRP/EC presentation to White ard and White Pine County Commission on the monitoring plans

ns of groundwater-influenced ecosystem drivers and

ns of groundwater-influenced ecosystem drivers and

C review of monitoring plan; monitoring plan revisions; //TRP/EC presentation to White Pine County Advisory unty Commission on the biological and hydrologic

kt meeting

WG/TRP/EC presentation to White Pine County e Pine County Commission on the biological and ans

ns of groundwater-influenced ecosystem drivers and ess; poster for NWRA conference on biological on transect establishment; prep for presentation of Pine County; overview of BWG core team update to EC at the 2009 NWRA conference on the biological

on to the White Pine County Advisory Board on the monitoring plans

ion at the White Pine County Commission Meeting on ogic monitoring plans

Monitoring Plan for the Spring Valley Stipulation embers and participants, EC and NSE.

tabase to ensure integrity, transparency, traceability, ibution. Development of live export to serve up-to-date

veys conducted in accordance with the Biological pring Valley Stipulation

	Activity	Date	Duration	Agency Representation and Participation	Topics
				10 attendees. BWG members & participants: 2 SNWA, 1	-
				FWS, 1 BLM, 1 NPS, 1 NDOW. 1 BLM EIS liaison.	Monitoring plan implementa
72	BWG working meeting (call)	2009 03/19	2 hours	Invited: 1 BIO-WEST, 1 KS2, 1 TNC.	vegetation transect design an
					KS2 design of long-term veg
					rocky mountain juniper (swa
					cross aquatic areas and ecoto
					KS2 and BIO-WEST for SN
73	Vegetation transect establishment	2009 03/26-07/08	150 person-days	SNWA, KS2. BWG review.	GIS support.
74	BWG core team planning meeting (call)	2009 04/22	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM.	Topics and agenda for next n
				9 attendees. BWG members & participants: 1 SNWA, 1	Data collection schedule; wil
				FWS, 1 BLM, 1 NPS, 1 NDOW, 1 UDWR. 1 BLM EIS	leopard frog survey protocol
75	DWC working masting (adl)	2000 04/22	2 hours		
75	BWG working meeting (call)	2009 04/23	2 hours	liaison. Invited: 1 BIO-WEST, 1 KS2.	frog egg mass survey; vegeta
76	EC/BWG core team meeting (call)	2009 05/06	1 hour	n 0	Updates and feedback; White hydrologic and biologic mon
70	EC/BwG core team meeting (can)	2009/03/00	1 Hour	n.a.	Aquatic wildlife and habitat
77	Biological data collection	2009 05/01-28	107 person days	SNWA, BIO-WEST. NDOW assist.	Monitoring Plan for the Sprin
11		2009 03/01-28	107 person-days	SINWA, DIO-WEST. INDOW assist.	Data entry and QA/QC for 2
					BWG members and participa
					process to ensure integrity, the
78	Biological data management	2009 06/01-09/30	130 parson days	SNWA. KS2 (vegetation). BWG review.	distribution. GIS support.
70		2009 00/01-09/30	150 person-days	SIVWA. KS2 (Vegetation). DWO Teview.	
79	BWG core team working meeting	2009 06/22	2 hours	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Goals, objectives and present
					Updates and feedback; White
80	EC/BWG core team meeting (call)	2009 06/23	1 hour	n.a.	hydrologic and biologic mon
					Vegetation surveys conducte
81	Biological data collection	2009 06/30-08/10	16 person-days	KS2. SNWA, FWS assist.	for the Spring Valley Stipula
82	BWG core team working meeting (call)	2009 07/09	2 hours	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Goals, objectives and present
83	BWG core team working meeting (call)	2009 07/15	2 hours	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Goals, objectives and present
					Shoshone Ponds fish surveys
84	Biological data collection	2009 07/23&30	4 person-days	NDOW, FWS, SNWA.	Monitoring Plan for the Sprin
					Valley-floor rocky mountain
85	Biological data collection	2009 08/04-19	20 person-days	SNWA. KS2, FWS assist.	accordance with the Biologic
86	BWG core team working meeting	2009 08/19	1 hour	4 attendees. BWG members: 2 SNWA, 1 FWS, 1 BLM.	Goals, objectives and presen
	D w O core team working meeting	2007 00/17	1 11001	+ and $+$ and $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	· 5 · 1
00					Aquatic wildlife and habitat

and establishment; database development egetation transects in spring, wetland, meadow and wamp cedar) sampling areas. Transects designed to otones using vegetation community maps produced by NWA. SNWA establishment of permanent markers.

t meeting

wildlife permits and private land access; northern ols and update; single vs multiple observer methods for etation transect establishment

hite Pine County Commission letter of inquiry re: onitoring plans; ecological modeling; data sharing at surveys conducted in accordance with the Biological oring Valley Stipulation

2009 spring and summer surveys. Data shared with ipants. Development and implementation of work flow , transparency, traceability, storage, security, and

enters of upcoming Ecological Modeling Workshop nite Pine County Commission letter of inquiry re: onitoring plans; ecological modeling; data sharing. eted in accordance with the Biological Monitoring Plan nlation

enters of upcoming Ecological Modeling Workshop

enters of upcoming Ecological Modeling Workshop eys conducted in accordance with the Biological bring Valley Stipulation

in juniper (swamp cedar) surveys conducted in gical Monitoring Plan for the Spring Valley Stipulation

enters of upcoming Ecological Modeling Workshop at surveys conducted in accordance with the Biological bring Valley Stipulation

	Activity	Date	Duration	Agency Representation and Participation	Topics
					Data entry and QA/QC for 2
					and participants. Continued
					integrity, transparency, trace
88	Biological data management	2009 10/01-01//29	90 person-days	SNWA. BWG review.	support.
					Ecological Modeling Works
					consultant; using models eff
					(SNWA; CCRP groundwate
				32 attendees. BWG members & participants: 2 SNWA, 2	models, Vegetation Dynami
				FWS, 2 BLM, 1 BIA, 2 NPS, 2 NDOW, 1 UDWR. TRP	Sada (U. New Mexico/DRI;
				members: 1 SNWA, 1 FWS. EC members: 2 SNWA, 3	Grande Silvery Minnow rest
				FWS, 1 BLM. 1 BLM EIS liaison. Invited: 1 FWS BRT,	models, EDYS model); and
				1 FWS, 2 TNC. Presenters: 1 ACOE, 1 DOI, 1 SNWA, 1	ecological models used by A
89	BWG/EC workshop	2009 10/29	8 hours	ESSA, 1 UNM, 1 KS2, 1 independent consultant.	hydrologic model coupling;
	The second se				Major 2009 activities; surve
90	Data analysis and annual report writing	2009 11/02 - 2010 03/29	200 person-days	SNWA. KS2 (vegetation). BWG review.	results; anticipated 2010 act
91	EC/BWG core team meeting (call)	2009 12/02	1 hour	n.a.	Updates and feedback; Ecol
					SNWA presentations and B
					results and interpretation, da
92	BWG annual meeting	2010 01/11-12	13 hours	n.a.	development; sampling met
-					2009/2010 accomplishments
93	BWG/TRP/EC annual meeting	2010 03/03	n.a.	n.a.	development; sampling met
10					Northern leopard frog surve
94	Biological data collection	2010 03/09-04/21	40 person-days	SNWA. FWS, NPS, UDWR assist.	Monitoring Plan for the Spri
			is person anys		
					Transmittal of Spring Valley
95	Completion of annual report	2010 03/30			Report (SNWA, 2010) to B
					Aquatic wildlife and habitat
96	Biological data collection	2010 05/03-20	104 person-days	SNWA, BIO-WEST. FWS assist.	Monitoring Plan for the Spri
					Data entry and QA/QC for 2
					BWG members and particip
					to ensure integrity, transpare
97	Biological data management	2010 06/01-09/30	105 person-days	SNWA. KS2 (vegetation). BWG review.	GIS support.
					Vegetation surveys conducted
98	Biological data collection	2010 06/28-08/13	20 person-days	KS2. SNWA, FWS assist.	for the Spring Valley Stipula
	6				
				8 attendees. BWG members & participants: 2 SNWA, 2	Annual reporting procedures
99	BWG/BRT working meeting (call)	2010 06/29	1 hour	FWS, 1 BLM, 1 NPS, 1 NDOW, 1 UDWR.	BWG/BRT analyses/interpre
	EC/BWG core team meeting (call)	2010 07/07	1 hour	n.a.	Updates and feedback; report
	<u> </u>				
					Valley-floor rocky mountair
101	Biological data collection	2010 08/03-17	20 person-days	SNWA.	accordance with the Biologi
	<u> </u>		1		Shoshone Ponds fish survey
					Shoshone I onus fish suivev

r 2009 fall surveys. Data shared with BWG members ed implementation of work flow process to ensure aceability, storage, security, and distribution. GIS

kshop: Presentations by T. Starfield (independent effectively for monitoring and management); J. Watrus ater flow model); L. Frid (ESSA; state and transition mics Development Tool [VDDT]); M. Stone and D. RI; species-specific habitat evaluation models, Rio estoration project); T. McLendon (KS2; mechanistic nd D. Price (Army Corps of Engineers [ACOE]; ACOE re: water management); biological and

g; rapid prototype modeling

vey methods; summary statistics and statistical tests; activities.

ological Modeling Workshop

BWG discussion re: 2009 biological data collection, data QA-QC/integrity/transparency, and database ethod revisions

nts; data QA-QC/integrity/transparency, and database ethod revisions

veys conducted in accordance with the Biological pring Valley Stipulation

ley Stipulation Biological Monitoring Plan 2009 Annual BWG members and participants, EC and NSE.

tat surveys conducted in accordance with the Biological pring Valley Stipulation

r 2010 spring and summer surveys. Data shared with ipants. Continued implementation of work flow process arency, traceability, storage, security, and distribution.

cted in accordance with the Biological Monitoring Plan ulation

res; goals of annual meetings; expectations and plans re: pretations and documentation;

porting procedures

ain juniper (swamp cedar) surveys conducted in gical Monitoring Plan for the Spring Valley Stipulation eys conducted in accordance with the Biological pring Valley Stipulation

	Activity	Date	Duration	Agency Representation and Participation	Topics
103	BWG core team planning meeting (call)	2010 08/09	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 NPS.	Topics and agenda for next i
1				9 attendees. BWG members & participants: 2 SNWA, 2	Plans for BWG monitoring
104	BWG working meeting (call)	2010 08/16	1 hour	FWS, 1 BLM, 1 NPS, 2 NDOW, 1 UDWR.	springsnail protocol; statistic
104		2010/00/10	1 Hour		Aquatic wildlife and habitat
105	Biological data collection	2010 08/30-09/22	104 person-days	SNWA, BIO-WEST. NDOW, FWS, BIA, NPS assist.	Monitoring Plan for the Spri
			1 ,		Data entry and QA/QC for 2
					and participants. Continued
					integrity, transparency, trace
106	Biological data management	2010 09/27-01//27	75 person-days	SNWA. BWG review.	support.
				4 attendees. BWG members: 1 SNWA, 1 FWS, 1 NPS, 1	
107	BWG core team planning meeting (call)	2010 10/05	1 hour	BLM.	Topics and agenda for next i
					Goals/objectives/process of
					and management; rapid prot
					questions); water velocity ar
					data collection (piezometers
					management; NDOW study
100		2010 10/26 27	10.1	9 attendees. BWG members & participants: 1 SNWA, 2	on ESA petitions and listing
108	BWG working meeting	2010 10/26-27	12 hours	FWS, 2 BLM, 2 NPS, 1 NDOW, 1 UDWR.	monitoring plan revision
					BWG evaluation of the mon
				10 contributors. BWG members & participants: 1 SNWA,	and adaptive framework. Ex
				2 FWS, 1 BLM, 1 NPS, 2 NDOW, 1 UDWR. Expert	sampling objectives, sampling
109	Monitoring plan evaluation	2010 12/06 - present		advice: 1 BIO-WEST, 1 DRI.	ranges of variation, conceptu
107		2010 12/00 present			Major 2009 activities; surve
110	Data analysis and annual report writing	2010 11/01 - 2011 03/29	200 person-days	SNWA. KS2 (vegetation). BWG review.	results; anticipated 2010 acti
				5 attendees. BWG members & participants: 1 SNWA, 2	EC comments on BWG time
111	BWG working meeting (call)	2010 12/13	1 hour	FWS, 1 BLM, 1 NPS.	revision; BWG monitoring p
				4 attendees. BWG members: 1 SNWA, 1 FWS, 1 NPS, 1	
112	BWG core team planning meeting (call)	2011 02/23	1 hour	BLM.	Topics and agenda for next i
					Updates and feedback; timel
113	EC/BWG core team meeting (call)	2011 03/02	1 hour	n.a.	revision
					Hydrologic monitoring activ
					of draft annual report; SNW
					biological data collection, re
					sampling method revisions;
					(objectives, early warning in
				13 attendees. BWG members & participants: 2 SNWA, 2	linking monitoring and man
		0011.00/00.10	1.4.1	FWS, 1 BLM, 1 NPS, 2 NDOW, 1 UDWR. TRP member:	
114	BWG annual meeting	2011 03/09-10	14 hours	1 SNWA (TRP update). Invited: 2 SNWA, 1 NDOW.	resources
				A attendage DWC members, 1 CNWA 1 EWC 1 DIN	Drop for presentation to the 1
115	BWG working meeting (acl)	2011 03/20	2 hours	4 attendees. BWG members: 1 SNWA, 1 FWS, 1 BLM, 1 NPS.	Prep for presentation to the levaluation, and timeline of c
115	BWG working meeting (call)	2011 03/29	2 hours	1 INE 5.	evaluation, and timenne of C

kt meeting

g plan evaluation and rapid prototype modeling; stical protocols; 2011 data collection

tat surveys conducted in accordance with the Biological pring Valley Stipulation

r 2010 fall surveys. Data shared with BWG members ed implementation of work flow process to ensure aceability, storage, security, and distribution. GIS

kt meeting

of BWG monitoring plan evaluation; linking monitoring rototype modeling brainstorming (objectives, audiences, and springsnail sampling techniques; update on TRP ers, flumes, water chemistry); Shoshone Ponds dy proposal on Pahrump poolfish genetics; FWS update ngs; timeline of data collection/studies/BWG

onitoring plan in accordance with the monitoring plan Evaluation of 2009-2010 data, early warning indicators, bling designs, indicator ratings, indicator relationships, ptual models, and linking monitoring and management. vey methods; summary statistics and statistical tests; activities.

meline of data collection/studies/BWG monitoring plan g plan evaluation progress

kt meeting

neline of data collection/studies/BWG monitoring plan

tivities; Shoshone Ponds wells and monitoring; review WA presentations and BWG discussion re: 2010 results and interpretation; reporting procedures; s; BWG monitoring plan evaluation re: fish surveys indicators, indicator ratings, variation and trend, anagement); rapid prototype modeling; timeline of data nonitoring plan revision; statistical objectives and

e EC on BWG activities, BWG monitoring plan f data collection/studies/BWG monitoring plan revision

(page 9 of 10)

	Activity	Date	Duration	Agency Representation and Participation	Topics
					Transmittal of Spring Valley
116	Completion of annual report	2011 03/30			Report (SNWA, 2011) to B
					2010/2011 accomplishments
					evaluation and revision; time
				14 attendees. BWG members: 3 SNWA, 1 FWS, 1 BLM,	revision; 2011 SNWA field
				1 NPS. EC members: 1 BIA, 2 SNWA, 1 FWS, 2 BLM, 2	make recommendations of u
117	BWG/EC annual meeting	2011 03/30	2 hours	NPS.	coordination; rapid prototyp
118	BWG core team planning meeting (call)	2011 05/31	1 hour	3 attendees. BWG members: 1 SNWA, 1 FWS, 1 NPS.	Topics and agenda for next
					2011 SNWA field efforts in
					evaluation re: fish, physical
					design, scale, early warning
				7 attendees. BWG members & participants: 1 SNWA, 2	linking abiotic and biotic da
119	BWG working meeting	2011 06/07-08	13 hours	FWS, 1 BLM, 1 NPS, 1 NDOW, 1 UDWR.	monitoring, linking monitor
					Agenda: BWG monitoring p
					rocky mountain juniper (swa
120	BWG working meeting	2011 08/16-17	7 hours	To be determined.	coordination
121	BWG/TRP working meeting	2011 08/17	3 hours	To be determined.	Agenda: Coordination of hy

ley Stipulation Biological Monitoring Plan 2010 Annual BWG members and participants, EC and NSE. Ints; goals and process of BWG monitoring plan imeline of data collection/studies/BWG monitoring plan Id efforts in support of the Stipulation; using science to f unreasonable adverse effects to the EC; BWG/TRP ype modeling

t meeting

in support of the Stipulation; BWG monitoring plan al habitat and springsnail surveys (objectives, sampling ng indicators, indicator ratings, indicator relationships, data, conceptual models, variation and trend, targeted coring and management); BWG/TRP coordination g plan evaluation re: fish, physical habitat, springsnail, swamp cedar), and water quality surveys; BWG/TRP

ydrologic and biologic data collection