

The December 15, 1999 Public Scoping Meeting at Cadiz consisted of formal presentations by Metropolitan and P&D Environmental staff, followed by public comment. The transcript for this meeting includes both the formal presentations and the public comments. The transcript of the formal presentation is on pages 1 through 17 of the transcript. The part of the transcript for public comments is on pages 17 through 19 of the transcript.

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METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
CADIZ GROUNDWATER STORAGE AND DRY-YEAR SUPPLY PROGRAM

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PUBLIC SCOPING MEETING

WEDNESDAY, DECEMBER 15, 1999

AT CADIZ, INC.

96-726 HIGHWAY 66, CADIZ, CALIFORNIA

AT 11:18 A.M.

REPORTED BY: KAREN KOVACS, C.C.R., R.P.R.
CALIFORNIA C.C.R. #6485/NEVADA C.C.R. #550

1 MS. SALENIUS: I'D JUST LIKE TO WELCOME ALL
2 OF YOU THAT HAVE COME TO COMMENT ON THE DRAFT ENVIRONMENTAL
3 IMPACT REPORT, ENVIRONMENTAL IMPACT STATEMENT FOR THE CADIZ
4 PROJECT.

5 WE'RE HERE TODAY TO PROVIDE THESE COMMENTS TO
6 ALLOW BOTH THE METROPOLITAN WATER DISTRICT AND B.L.M. TO
7 UNDERSTAND WHAT YOUR CONCERNS ARE AND MAKE DETERMINATIONS AS
8 TO THE ADEQUACY OF WHAT'S BEEN DONE TO DATE, AND TO PROVIDE
9 ANY ADDITIONAL INFORMATION THAT WE NEED TO PUT IN THE
10 DOCUMENT BEFORE IT'S FINALIZED.

11 MY NAME IS SYLVIA SALENIUS. I'M WITH P & D
12 ENVIRONMENTAL. WE WERE THE PRIMARY PREPARERS OF THE
13 ENVIRONMENTAL DOCUMENT. WITH ME HERE TODAY -- HE'LL BE
14 MAKING A PRESENTATION ABOUT THE PROJECT -- IS DIRK REED.
15 HE'S PROGRAM MANAGER FOR THE METROPOLITAN WATER DISTRICT.

16 WE ALSO HAVE IN THE AUDIENCE JACK SAFELY. JACK,
17 RAISE YOUR HAND. HE'S BEEN ASSISTING DIRK ON THE PROJECT.
18 JACK WILL BE RECEIVING ANY MAIL COMMENTS THAT YOU'D LIKE TO
19 SUBMIT AT A LATER DATE.

20 ALSO KATHY KUNYSZ IS HERE. KATHY'S BEEN INVOLVED
21 IN SOME OF THE BIOLOGICAL AND CULTURAL-RESOURCE ISSUES ON
22 THE PROJECTS. AND KEN ASHFORD IS HERE SOMEWHERE. HE WAS AT
23 THE SIGN-IN TABLE EARLIER, THE GENTLEMAN THAT WAS THERE.
24 HE'S ALSO WITH METROPOLITAN WATER DISTRICT, DOES A LOT OF
25 THEIR PUBLIC PARTICIPATION PROGRAMS.

1 KEN DOWNING IS HERE. HE'S FROM THE B.L.M. SO WE
2 HAVE BOTH AGENCIES REPRESENTED HERE.

3 THE PURPOSE OF THIS MEETING IS TO PROVIDE --
4 AGAIN, PROVIDE YOU WITH AN OPPORTUNITY COMMENT ON ADEQUACIES
5 OF THE ENVIRONMENTAL DOCUMENTS. AND ONE OF THE THINGS
6 THAT'S IMPORTANT IN ENVIRONMENTAL LAW IS THAT THE DOCUMENTS
7 ARE WRITTEN SO THAT THE DECISION-MAKERS KNOW THAT THE
8 POTENTIAL IMPACTS OF THE PROJECTS ARE PROPERLY DISCLOSED.

9 AND SO WHATEVER COMMENTS YOU WANT TO MAKE ABOUT
10 THE CONTENTS OF THE ENVIRONMENTAL DOCUMENTS AND THE PROPER
11 DISCLOSURE OF IMPACTS ARE THE TOPICS THAT WE'RE SEEKING TO
12 TALK ABOUT TODAY.

13 THERE WILL BE A FULL 90-DAY REVIEW PERIOD FOR
14 THESE DOCUMENTS, SO JUST BECAUSE YOU'RE HERE TODAY AND MIGHT
15 MAKE COMMENTS TODAY DOESN'T MEAN THIS IS YOUR LAST
16 OPPORTUNITY TO COMMENT.

17 THE COMMENT PERIOD WILL BE OPEN UNTIL FEBRUARY
18 23RD OF THE YEAR 2000. I KNOW IN SOME OF THE DOCUMENTS IT
19 SAYS FEBRUARY 23RD, 1999. THAT'S NOT RIGHT. IT'S FEBRUARY
20 23RD, 2000. SO IF YOU PREFER TO SEND ANY WRITTEN COMMENTS,
21 YOU HAVE PLENTY OF OPPORTUNITY TO DO THAT.

22 THE ORAL COMMENTS THAT WE RECEIVE TODAY WILL BE
23 RECORDED VERBATIM. AS YOU CAN SEE, WE HAVE GOT OUR
24 TRANSCRIBER HERE. THOSE COMMENTS AND ANY WRITTEN COMMENTS
25 YOU GIVE US WILL BE INCLUDED IN THE FINAL E.I.R./E.I.S. AND

1 ALSO RESPONSES TO THOSE COMMENTS WILL BE INCLUDED IN THE
2 DOCUMENT, THAT FINAL DOCUMENT THAT WOULD BE RELEASED ROUGHLY
3 MARCH OF THE YEAR 2000.

4 AND ALL OF THAT INFORMATION, THE INFORMATION IN
5 THE DRAFT E.I.R. AND E.I.S. AND THE INFORMATION IN THE FINAL
6 E.I.R. AND E.I.S. WILL BE USED BY BOTH AGENCIES, THE
7 METROPOLITAN WATER DISTRICT BOARD OF DIRECTORS AND THE
8 B.L.M., TO MAKE DETERMINATIONS AS TO WHETHER TO PROCEED WITH
9 THIS PROJECT, AND ALSO ON THE B.L.M.'S BEHALF TO ALLOW THE
10 LAND THAT IS IN B.L.M. JURISDICTION TO BE USED FOR THE
11 PROJECT.

12 OUR AGENDA FOR THE MEETING RIGHT NOW WILL BE TO
13 HAVE DIRK MAKE A PRESENTATION ABOUT THE PROJECT AND THE
14 FINDINGS OF THE ENVIRONMENTAL DOCUMENT.

15 AFTER THE PRESENTATION, WE'LL ALLOW YOU TO ASK
16 QUESTIONS AND MAKE ANY COMMENTS THAT YOU'D LIKE TO MAKE, AND
17 AFTER WE GET ALL OF YOUR COMMENTS, WE'LL TAKE A BRIEF BREAK.
18 IF IT APPEARS THAT IT'S UNNECESSARY, IF WE GET COMMENTS
19 RATHER QUICKLY, WE WON'T HAVE TO TAKE A BREAK AND THEN WE'LL
20 TRY TO ANSWER ANY OF THE QUESTIONS WE'RE CAPABLE OF
21 ANSWERING RIGHT AT THIS POINT.

22 FOR YOUR CONVENIENCE, THERE ARE COPIES OF THE
23 DRAFT E.I.R., E.I.S. AVAILABLE FOR REVIEW AT THE NEEDLES, 29
24 PALMS, BARSTOW AND SAN BERNARDINO BRANCH LIBRARIES, AND AT
25 METROPOLITAN WATER DISTRICT IN LOS ANGELES AND AT THE B.L.M.

1 OFFICE IN RIVERSIDE.

2 AND IF YOU'RE INTERESTED IN KNOWING WHERE THOSE
3 LOCATIONS ARE, KEN CAN PROVIDE YOU WITH THAT INFORMATION
4 BECAUSE IT'S LISTED IN THE ENVIRONMENTAL DOCUMENT. AT THIS
5 POINT, I'D LIKE TO TURN IT OVER TO DIRK AND HAVE HIM TELL
6 YOU ABOUT THE PROJECT.

7 MR. REED: THANKS, SYL.

8 AGAIN, I'M DIRK REED, PROJECT MANAGER OF THE CADIZ
9 GROUNDWATER STORAGE AND DRY-YEAR SUPPLY PROGRAM. AND
10 BASICALLY, AS SYL LAID OUT TO YOU, WHAT I'M GOING TO DO IS
11 FIRST DESCRIBE THE PUBLIC-INVOLVEMENT PROCESS THAT WE'RE
12 INVOLVED IN HERE TODAY, THEN I'M GOING TO GO INTO A BRIEF
13 DISCUSSION ABOUT THE PROJECT ITSELF, GIVE YOU SOME OF THE
14 DETAILS ABOUT IT, GOING TO GET YOU FAMILIAR WITH THE PROJECT
15 AND THEN GO INTO THE PUBLIC COMMENT, TURN IT BACK OVER TO
16 HER, LET HER GO INTO THE PUBLIC COMMENT PROCESS.

17 BASICALLY, WHY WE'RE HERE TODAY IS THESE MEETINGS
18 ARE BEING HELD TO OBTAIN COMMENTS; IN OTHER WORDS, FOR YOU
19 HAVE AN INPUT INTO THE PUBLIC-INVOLVEMENT PROCESS, FOR YOU
20 TO TELL METROPOLITAN WATER DISTRICT'S BOARD AND ALSO B.L.M.
21 WHAT YOU CONSIDER SIGNIFICANT AS PART OF THIS PROJECTS, WHAT
22 WE HAVE LOOKED AT, WHAT WE'VE LOOKED AT IN ENOUGH DETAIL,
23 WHETHER HE NEED TO DO MORE ANALYSIS. THIS IS YOUR
24 OPPORTUNITY TO BECOME PART OF IT.

25 WHAT WE'RE GOING TO BE DOING IS GIVING A BRIEF

1 OVERVIEW, AS I MENTIONED, AND THEN DON'T FORGET, YOU CAN
2 SEND IN A LETTER BY FEBRUARY 22ND -- 23RD -- THERE WILL BE A
3 BIG LINE THROUGH THIS IN A LITTLE WHILE -- FEBRUARY 23RD,
4 GET YOUR WRITTEN COMMENTS, SO YOU DON'T HAVE TO GET UP AND
5 SPEAK IF YOU DON'T WANT TO TODAY.

6 THE METROPOLITAN WATER DISTRICT WAS CREATED IN
7 1928 UNDER THE ENABLING ACT OF THE CALIFORNIA LEGISLATURE.
8 METROPOLITAN WATER DISTRICT SUPPLIES SUPPLEMENTAL WATER TO
9 SOUTHERN CALIFORNIA COVERING THE SIX COUNTY REGIONS OF:
10 VENTURA, LOS ANGELES, RIVERSIDE, ORANGE, SAN DIEGO AND SAN
11 BERNARDINO COUNTIES.

12 IN PARTICULAR, METROPOLITAN WATER DISTRICT
13 PROVIDES 60 PERCENT OF THE WATER USED IN THIS AREA. IN SAN
14 BERNARDINO COUNTY, METROPOLITAN WATER DISTRICT PROVIDES
15 TWO-THIRDS OF THE IMPORTED WATER USED IN SAN BERNARDINO
16 COUNTY. BY 2020, THIS VISION PROVIDES ABOUT 300,000-ACRE
17 FEET PER YEAR TO SAN BERNARDINO COUNTY.

18 METROPOLITAN WATER DISTRICT RECEIVES ITS WATER
19 FROM TWO PRIMARY SOURCES: ONE OF THEM IS THE CALIFORNIA
20 AQUEDUCT FROM NORTHERN CALIFORNIA BAY DELTA AREA AND THE
21 SECOND ONE IS THROUGH THE COLORADO RIVER AQUEDUCT THROUGH
22 THE COLORADO RIVER.

23 PROJECT OBJECTIVES OR THE PROJECTS TODAY I WANT
24 TO TALK ABOUT REALLY ARE THREE-FOLD: ONE OF THEM IS
25 ENHANCING THE METROPOLITAN WATER DISTRICT'S WATER SUPPLIES

1 BY ALLOWING US TO STORE WET-YEAR WATER WHEN IT'S AVAILABLE
2 IN A GROUNDWATER BASINS; IN OTHER WORDS, GET IT WHEN IT'S
3 RAINING, GET IT TUCKED AWAY IN STORAGE FOR A LATER USE.

4 ANOTHER PIECE OF IT IS TO PROVIDE ADDITIONAL
5 DRY-YEAR SUPPLIES; IN OTHER WORDS, IN ADDITION TO THIS WATER
6 THAT'S BEEN STORED THERE IS ADDITIONAL SUPPLIES THAT ARE
7 AVAILABLE THAT CAN BE EXTRACTED OR TAKEN FROM THIS AREA AND
8 MOVED TO SOUTHERN CALIFORNIA.

9 AND THEN THE THIRD ONE IS TO IMPROVE WATER
10 QUALITY, ENHANCED WATER QUALITY.

11 I WANT TO GIVE YOU A LITTLE BIT OF AN IDEA OF THE
12 GROUNDWATER BASINS IN THE DESERT AREA. I THINK MOST
13 EVERYONE'S FAMILIAR WITH THESE, BUT BASICALLY THERE'S TWO
14 KINDS: KINDS THAT DRAIN BACK TOWARDS THE COLORADO RIVER,
15 SUCH AS THE PIUTE; THERE'S THE OTHER KINDS THAT DRAIN DOWN
16 TOWARDS THE DRY LAKE BEDS WHERE THE WATER EVAPORATES OFF.
17 YOU CAN TELL THE DIFFERENT KINDS OF GROUNDWATER BASINS.

18 FOR INSTANCE, IN THE BRISTOL/CADIZ AREA, THE DRY
19 LAKE BEDS ARE VERY -- WAY WHITE. THAT'S DUE TO THE
20 GROUNDWATER MOVING TOWARDS THESE DRY LAKE BEDS AND
21 EVAPORATING OFF, LEAVING BEHIND THE SALTS.

22 SOME OF THE OTHER DRY LAKE BEDS THAT YOU CAN SEE,
23 SUCH AS HAYFIELD, IT'S A BROWN COLOR, AND THAT'S BECAUSE
24 THAT'S A TOPOGRAPHIC DEPRESSION WHERE THE SURFACE WATER RUNS
25 TO AND THEN GOES INTO THE GROUND.

1 BASICALLY, BELOW THESE DRY LAKE BEDS WATER IS
2 ABOUT 500 FEET BELOW THE SURFACE, 600 FEET BELOW THE
3 SURFACE, SO THERE'S A LOT OF DIFFERENCE IN THE GROUNDWATER
4 BASINS THEMSELVES.

5 SO I MENTIONED YOU'VE GOT TWO KINDS, PIUTE TYPE,
6 CHEMEHUEVI TYPE THAT DRAIN BACK TOWARDS THE COLORADO RIVER,
7 AND THE KINDS THAT DRAIN TOWARDS THE DRY LAKE BEDS WHERE THE
8 WATER EVAPORATES OFF INTO THE ATMOSPHERE.

9 THE PROJECT I'M GOING TO TALK ABOUT, THE CADIZ
10 GROUNDWATER STORAGE PROJECT, BASICALLY HAS THREE MODES OF
11 OPERATION: ONE, WE ARE GOING TO STORE WATER IN THE
12 GROUNDWATER BASIN; TWO, WITHDRAW THAT STORED WATER, AND THE
13 THIRD ONE, WE'RE GOING TO TRANSFER SOME ADDITIONAL WATER OUT
14 OF THE GROUNDWATER BASIN DURING DRY YEARS. THAT'S BASICALLY
15 WHAT THE PROJECT HAS INVOLVED IN IT.

16 IN ORDER TO DO THESE THREE MODES OF OPERATION,
17 FACILITIES HAVE TO BE CONSTRUCTED. YOU HAVE TO BE ABLE TO
18 GET THE WATER IN, GET THE WATER SETTLED INTO THE GROUNDWATER
19 BASIN, AND THEN EXTRACT IT, THE WATER, MOVE THE WATER BACK
20 OUT.

21 TO FACILITATE THIS, WHAT WE HAVE TO DO IS
22 CONSTRUCT -- THIS IS DISCUSSED IN QUITE A BIT OF DETAIL IN
23 THE ENVIRONMENTAL DOCUMENT -- A CONVEYANCE PIPELINE 35 MILES
24 ALONG THE CALIFORNIA AQUEDUCT DOWN BY THE IRON MOUNTAIN
25 PUMPING PLANT UP TO THE CADIZ AND FENNER VALLEY, FENNER GAP,

1 WHERE THE WATER WILL BE PUT INTO A SPREADING BASIN,
2 APPROXIMATELY 400 ACRES OF SPREADING BASINS WHERE THE WATER
3 WILL INFILTRATE INTO THE GROUNDWATER BASIN.

4 AFTER IT'S STORED THERE, WE'LL NEED 30 EXTRACTION
5 WELLS TO RETRIEVE THAT WATER, PUT IT BACK INTO THE SAME
6 PIPELINE AND MOVE IT RIGHT BACK DOWN TO THE COLORADO RIVER
7 AQUEDUCT.

8 IN ADDITION, THERE WOULD BE NEW PUMPING PLANTS
9 LOCATED DOWN HERE IN ORDER TO PUMP THE WATER UP TO THE
10 SPREADING BASINS.

11 THOSE ARE THE FACILITIES THAT ARE NEEDED TO
12 FACILITATE THE OPERATION OF THE PROGRAM.

13 AS PART OF THIS DETAILED ENVIRONMENTAL PROCESS,
14 AN ANALYSIS HAS BEEN DONE TO A NUMBER OF CATEGORIES, SUCH
15 THINGS AS WATER QUALITY, GROUND WATER, HYDROLOGY, BIOLOGY,
16 CULTURAL, PALEOL, ALL OF THOSE ARE DISCUSSED IN THE
17 ENVIRONMENTAL DOCUMENT ITSELF.

18 I'M GOING TO DRAW YOUR ATTENTION TO A FEW OF THEM
19 THAT HAVE BEEN BROUGHT UP AS AREAS OF CONCERN THAT NEED TO
20 BE DISCUSSED IN THE MEETING TODAY, AND THAT HAS TO BE THE
21 HYDROLOGY, WATER QUALITY ONES. ALSO, A LITTLE BIT ABOUT THE
22 AIR QUALITY AND THE PALEOL-TYPE RESOURCES -- BONES.

23 FIRST, THE HYDROLOGY. A NUMBER OF ANALYSES HAS
24 BEEN DONE INSIDE THE ENVIRONMENTAL DOCUMENT. WE BEGAN WITH
25 NINE DIFFERENT OPERATIONAL SCENARIOS TO SEE HOW THIS

1 GROUNDWATER BASIN WOULD REACT, PUTTING WATER IN AND
2 EXTRACTING WATER BACK OUT.

3 WHAT WE FOUND IS IF YOU PUT IN ABOUT A
4 MILLION-ACRE FEET INTO THE GROUNDWATER BASIN, INTO THE
5 SPREADING BASINS, YOU END UP WITH ABOUT A 180-FOOT RISE IN
6 THE GROUNDWATER BASIN, BUT IF YOU LEAVE THAT WATER STORED
7 THERE, THE WATER DOES STAY IN THIS AREA. IT DOES START TO
8 FLATTEN OUT, AS YOU CAN SEE.

9 WHEN YOU EXTRACT THIS WATER LATER, WHAT YOU WILL
10 FIND IS YOU FIND YOURSELF WITH ABOUT A 180 TO 660-FOOT HOLE
11 CREATED WHEN YOU START TO EXTRACT THE WATER BACK OUT. THESE
12 PARAMETERS ARE DISCUSSED -- THESE ITEMS ARE DISCUSSED IN A
13 LOT MORE DETAIL IN THE ENVIRONMENTAL DOCUMENT ITSELF.

14 YOU CAN ALSO SEE THAT THE EFFECT OF PUTTING WATER
15 IN AND TAKING WATER OUT IS VERY LOCALIZED. YOU CAN SEE THAT
16 THE MOUNTAIN RANGES, MARBLE MOUNTAINS, NEW YORK MOUNTAINS
17 BOUND THE BASINS ON BOTH SIDES, WHICH KEEPS THE EFFECTS VERY
18 LOCALIZED INTO THE FENNER GAP ITSELF.

19 DOWN ON THE BRISTOL DRY LAKE BED QUITE A BIT OF
20 ANALYSIS WAS DONE ON THAT TO SEE WHAT THE EFFECTS WILL BE OF
21 PUTTING WATER IN, EXTRACTING WATER OUT.

22 YOU CAN SEE FROM THIS, FACILITY, IT'S ABOUT 12
23 INCHES IN EFFECT ON THE GROUNDWATER BASIN OF THE BRISTOL
24 LAKE BED OVER THE 50-YEAR PERIOD OF LIFE.

25 AT THE BEGINNING, YOU'RE LOOKING AT HAVING TO

1 RAISE THE GROUND LEVEL OF THE WATER BASIN ABOUT 12 INCHES,
2 AND TOWARDS THE END, LOOKING DOWN, WHERE IT'S GOING TO BE
3 COMING BACK DOWN TOWARDS EQUILIBRIUM AFTER THE PROGRAM.

4 ANOTHER MAJOR ISSUE THAT WE WANTED TO ADDRESS IN
5 THE ENVIRONMENTAL DOCUMENT WAS WHAT HAPPENS TO THE WATER
6 QUALITY OF THE BASIN WHEN YOU'RE PUTTING WATER IN.

7 WHEN YOU'RE STORING COLORADO RIVER WATER IN THE
8 GROUNDWATER BASIN EXTRACTING WATER OUT, WHAT'S GOING ON
9 BETWEEN THE FRESH WATER AND THE SALINE WATER DOWN AT THE DRY
10 LAKE BEDS?

11 AGAIN, IT'S -- BASED ON THE ANALYSIS THAT WAS
12 DONE, WHAT WE FOUND IS YOU'RE GOING TO SEE ABOUT A MAXIMUM
13 OF TWO THOUSAND FOOT MOVE OF THAT SALINE INTERFACE BETWEEN
14 WHERE IT IS, HISTORICALLY, AND WHERE WOULD IT BE THROUGHOUT
15 THE OPERATION OF THIS PROGRAM.

16 VERY LITTLE MOVEMENT OF THE SALINE INTERFACE. SO
17 IN OTHER WORDS, THE SALINE INTERFACE IS GOING TO BE IN ONE
18 LOCATION, AND THEN IT'S GOING TO MOVE BACK TOWARDS THE DRY
19 LAKE BED WHEN WE HAVE WATER STORED IN THE PROGRAM.
20 THAT GIVES YOU AN IDEA OF ABOUT THE WATER QUALITY AND THE
21 HYDROLOGY.

22 AGAIN, THERE'S A NUMBER OF SCENARIOS DISCUSSED IN
23 THE ENVIRONMENTAL DOCUMENT. I DIDN'T WANT TO GO INTO DETAIL
24 ON EACH ONE. IF YOU'D LIKE TO, IT'S IN THERE. WE CAN GO
25 THROUGH THEM ALL AT A LATER TIME.

1 ONE OF THE OTHER ISSUES MOST EVERYONE'S CONCERNED
2 ABOUT WITH THE GROUNDWATER BASIN, PUTTING WATER IN,
3 EXTRACTING IT OUT, IS WHAT'S GOING TO HAPPEN WITH THE GROUND
4 SURFACE ITSELF.

5 AS YOU SEE IN SOME AREAS, SUCH AS IN THE CENTRAL
6 VALLEY, THERE'S 30 TO 60 FOOT OF GROUND SUBSIDENCE DUE TO
7 OVER-PUMPING OF THE GROUNDWATER BASIN. IT'S VERY IMPORTANT
8 THAT WE LOOKED AT THAT, TRIED TO DO AN IN-DEPTH ANALYSIS
9 WHEN WE PUT WATER IN, TAKE WATER OUT.

10 WHAT YOU FIND IS YOU FIND A LOCALIZED EFFECT
11 COULD HAPPEN. UNDER THE MAXIMUM OPERATION SCENARIO OF
12 PUTTING IN A MILLION, TAKING OUT TWO-MILLION-ACRE FEET, WE
13 ENDED UP ABOUT A FOOT AND A HALF SUBSIDENCE SPREAD THREE
14 MILES WIDE BY SIX MILES LONG. AGAIN, VERY LOCALIZED
15 DIRECTLY ONTO THE CADIZ PROPERTY ITSELF.

16 NOW, YOU DO ALL THE MODELING ON THE GROUNDWATER
17 BASIN, YOU LOOK AT ALL THE ISSUES, SUCH AS HYDROLOGY, WATER
18 QUALITY AND THE GROUND SURFACE, YOU GOT TO FIGURE OUT
19 WHETHER THE ANALYSIS IS GOING TO PROVE UP TO MAKE SURE THAT
20 THAT WAS AN INSIGNIFICANT EFFECT OR IS IT GOING TO REACT
21 DIFFERENTLY THAN WE THOUGHT.

22 THE WAY YOU ALWAYS ENSURE THAT IS YOU DEVELOP A
23 GROUNDWATER MONITORING PLAN, GROUNDWATER MANAGEMENT PLAN TO
24 LOOK AT THESE ELEMENTS, KEEP TRACK OF THESE THINGS OVER TIME
25 AND HAVE SAFEGUARDS BUILT INTO IT.

1 THOSE ARE THE THINGS THAT IT'S GOING TO BE
2 LOOKING AT, GOING TO BE LOOKING AT REGULATING THE OPERATION
3 OF THE WATER. WELL, AND IF WE START TO SEE AN EFFECT, WE
4 ARE GOING TO STOP PUTTING WATER IN OR STOP TAKING WATER
5 OUT. THAT'S BASICALLY HOW IT WORKS.

6 WHAT CHARACTERISTICS ARE GOING TO BE MONITORED
7 INCLUDE CHANGES IN THE GROUNDWATER QUALITY. IF WE START TO
8 SEE ANYTHING ON THE SALINE INTERFACES BEYOND WHAT WE BELIEVE
9 IS GOING TO HAPPEN, WE'RE GOING TO CHANGE THE OPERATIONS,
10 FLUCTUATIONS IN THE GROUNDWATER DURING OPERATIONS.

11 IN OTHER WORDS, IF IT COMES UP TOO HIGH, WE'RE
12 GOING TO QUIT PUTTING WATER IN, AND THEN ALSO MOVEMENT OF
13 THE BRINE INTERFACE AND CHANGES OF THE GROUND SURFACE
14 ELEVATION SUBSIDENCE, WE'RE GOING TO STOP OUR OPERATIONS ON
15 THAT.

16 ALSO, THESE ARE ALL LAID OUT GENERALLY HERE, BUT
17 BEFORE THE FINAL ENVIRONMENTAL DOCUMENTS ARE DONE, WE'LL
18 HAVE THE SPECIFICATIONS WORKED OUT, HOW EACH OF THESE ITEMS
19 WILL BE EVALUATED, WHAT THE FAMILIAR ISSUES WILL BE.

20 AS I MENTIONED, THERE'S A FEW OTHER CATEGORIES I
21 WANT TO TALK ABOUT THAT AFTER WE APPLIED OUR MITIGATION
22 MEASURES THEY WERE STILL SIGNIFICANT; IN OTHER WORDS, WHAT
23 HAPPENS IS THERE'S SOME ISSUES THAT WE CAN'T MITIGATE FOR
24 DURING THE PROJECT.

25 THOSE ITEMS OUT OF THIS LIST BASICALLY GET DOWN TO

1 THREE THINGS: PALEOL RESOURCES, AIR QUALITY, AND HAZARDS
2 AND HAZARDOUS MATERIALS. WHAT THINGS ARE INVOLVED, FOR
3 INSTANCE, ON PALEOL RESOURCES, AROUND THE DRY LAKE BEDS
4 THERE'S A LOT OF FOSSILS.

5 ANIMALS OVER HISTORY HAVE -- USED TO GO TO THE DRY
6 LAKE BEDS FOR WATER, OTHER ITEMS, THEN DIED DOWN THERE.
7 WE'RE GOING TO ENVISION RUNNING INTO SOME FOSSILS WHILE WE
8 ARE PUTTING IN THE PIPELINE. WE ARE GOING TO TRY TO
9 MONITOR, TRY TO DOCUMENT WHAT WE RUN ACROSS AND TAKE IN THE
10 INFORMATION, THAT WE IMPROVE THE KNOWLEDGE ABOUT WHAT
11 HAPPENED IN THIS AREA.

12 AIR QUALITY IS ANOTHER ISSUE THAT REMAINS
13 SIGNIFICANT AFTER MITIGATION. BASICALLY WHAT THAT GETS DOWN
14 TO IS DURING CONSTRUCTION WE'LL HAVE DUST IMPACTS. THE
15 EQUIPMENT IS GOING TO CREATE DUST BECAUSE THERE IS ALREADY
16 DUST IN THESE AREAS. ANY ADDITIONAL DUST CREATED IS STILL
17 CONSIDERED SIGNIFICANT.

18 WE HAVE MITIGATION MEASURES IN THE DOCUMENTS, SUCH
19 AS WATERING TO KEEP THE DUST DOWN, THINGS LIKE THAT, CONTROL
20 OF EMISSIONS FROM THE VEHICLES, BUT ANY NEW EMISSIONS IN THE
21 AREA IS STILL CONSIDERED SIGNIFICANT.

22 THE LAST ONE IS HAZARDS AND HAZARDOUS MATERIALS.
23 A LOT OF YOU KNOW, THE AREA HAS BEEN USED FOR TRAINING,
24 MILITARY TRAINING. WE'RE GOING TO BE DOING SOME ANALYSIS
25 BEFORE THE CONSTRUCTION EQUIPMENT GETS IN THERE TO ENSURE

1 THERE ARE NOT UNEXPLODED ORDINANCES, BUT THERE'S NO
2 GUARANTEE WE'RE GOING TO GET ALL OF IT.

3 SOME OF OUR CONSTRUCTION EQUIPMENT MIGHT HIT SOME
4 UNEXPLODED ORDINANCES, ESPECIALLY FOR THE GUY ON THE TOP OF
5 THE BACKHOE. THOSE ARE THE THREE MAIN ONES WE WILL HAVE.
6 WE DON'T BELIEVE WE CAN MITIGATE BELOW THE LEVEL OF
7 SIGNIFICANCE.

8 A LITTLE BIT ABOUT THE SCHEDULE. SYL MENTIONED --
9 STARTED OFF WITH IT. BACK IN THE BEGINNING, BACK IN
10 FEBRUARY OR MARCH, WE HAD SOME SCOPING MEETINGS, DIDN'T HAVE
11 A LOT OF ANSWERS FOR THOSE QUESTIONS BECAUSE WE HADN'T
12 STARTED DOING THE ANALYSIS. RIGHT NOW WE DO HAVE A LOT OF
13 ANSWERS. WE CAN GO INTO MORE DETAIL ABOUT THE FACILITIES,
14 WHAT THE IMPACTS ARE, WHAT THE MITIGATIONS ARE AT THIS
15 TIME. BUT WE HAD SCOPING MEETINGS. WE WERE HERE. WE WENT
16 DOWN TO 29 PALMS, WHERE WE'RE GOING TO BE GOING TO TONIGHT
17 FOR ANOTHER SCOPING MEETING LIKE THIS, AND WE'RE GOING OUT
18 TO NEEDLES TO HAVE A SCOPING MEETING OUT IN NEEDLES LIKE WE
19 DID BACK IN FEBRUARY, MARCH.

20 WHAT THAT ALLOWED US TO DO IS SCOPE THE DOCUMENT,
21 WHAT YOU THOUGHT WAS SIGNIFICANT, WHAT ISSUES NEEDED TO BE
22 ADDRESSED AND ALLOWED US TO ADDRESS THOSE IN THE
23 ENVIRONMENTAL DOCUMENT.

24 WHERE WE ARE NOW IS THE DRAFT ENVIRONMENTAL
25 DOCUMENT ITSELF, DRAFT E.I.R./E.I.S. IT'S A JOINT DOCUMENT

1 BETWEEN METROPOLITAN WATER DISTRICT, WHICH IS A STATE PUBLIC
2 AGENCY, AND B.L.M., WHICH IS A FEDERAL AGENCY.

3 THAT'S OUT ON THE STREET FOR PUBLIC REVIEW. AS
4 SYL MENTIONED, IT'S GOING TO BE OUT ON THE STREET IN
5 FEBRUARY, ABOUT THE 22ND, 23RD --

6 MS. SALENIUS: 23RD.

7 MR. REED: 23RD. PLEASE SUPPLY YOUR
8 COMMENTS, SUPPLY WRITTEN COMMENTS ALL THE WAY UP TO THE
9 23RD. THOSE WILL BE ADDRESSED. IN OTHER WORDS, WE WILL PUT
10 TOGETHER RESPONSES FOR EACH COMMENT THAT YOU SUPPLY. YOU
11 CAN SUPPLY COMMENTS HERE OR PUT THEM IN A WRITTEN LETTER,
12 SEND THEM TO US. EITHER WAY, YOU WILL SEE A FORMAL RESPONSE
13 TO YOUR COMMENTS.

14 YOU WILL ALSO RECEIVE A DOCUMENT THAT HAS THOSE
15 RESPONSES IN IT. WHAT WE'RE LOOKING AT, ASSUMING
16 CERTIFICATION OF THE PROJECT, IS PROBABLY MOVING INTO
17 CONSTRUCTION SOMETIME IN LATE SPRING, EARLY SUMMER, FULL
18 OPERATIONS OF THE PROGRAM, ASSUMING METROPOLITAN MOVES
19 FORWARD WITH IT, WOULD BE AT ABOUT THE YEAR 2001, SUMMER OF
20 2001.

21 WITH THAT BEING SAID, I'LL TURN IT BACK OVER TO
22 SYL.

23 MS. SALENIUS: OKAY. WE DID HAVE SOME
24 COMMENT CARDS ON THE TABLE. I DON'T KNOW WHETHER ANY OF YOU
25 FILLED THOSE OUT. IS THERE ANYONE WHO DOES WISH TO SPEAK

1 ABOUT THE PROJECT?

2 (NO RESPONSE.)

3 MS. SALENIUS: ALL RIGHT. WHAT I WOULD LIKE
4 TO SAY IS THAT YOU ARE CERTAINLY WELCOME TO TAKE A COMMENT
5 CARD. THE COMMENT CARDS, THERE'S TWO VERSIONS OF THEM.
6 ACTUALLY, SOME WITH STAMPS IF YOU'RE GOING TO MAIL THEM BACK
7 AS A SHORT COMMENT. SOME NOT STAMPED. IF YOU JUST WANT TO
8 TAKE ONE TO GET THE ADDRESS, THEN PLEASE TAKE ONE OF THE
9 UNSTAMPED ONES SO WE DON'T WASTE OUR STAMPS.

10 MR. REED: YOU CAN PEEL THEM OFF AND REUSE
11 THEM.

12 MS. SALENIUS: THEY'RE THE PEEL AND STICK
13 KIND.

14 I DO WANT TO THANK YOU FOR ATTENDING HERE TODAY.
15 I DON'T KNOW WHETHER YOU HAVE ANY QUESTIONS THAT WE MIGHT BE
16 ABLE TO ANSWER. THAT'S ANOTHER OPPORTUNITY THAT YOU HAVE
17 UNLESS DIRK DID SUCH A STELLAR JOB EXPLAINING THINGS, YOU
18 DON'T HAVE ANY QUESTIONS.

19 YES, SIR.

20 MR. DOLESHAL: I'VE ALWAYS BEEN INTERESTED.
21 THAT INTERFACE BETWEEN THE BRINE AND THE FRESH WATER, IS
22 THAT A PHYSICAL BARRIER?

23 MR. REED: IT'S A GRADIENT, GOES FROM WHAT
24 THE T.D.S., THE SALT IN THE FRESH WATER, UP TO A LOT HIGHER
25 SALT IN THE DRY LAKE BEDS. WHAT WE SHOW THERE IS A 1000

M-1

1 MILLIGRAM LINE. THAT'S WHAT WE'RE GOING TO BE WATCHING IS
2 THAT GRADIENT. THAT WILL TELL YOU HOW MILLIGRAMS.

3 YOU DO SEE THE FRESH WATER PUSHING THE SALT WATER
4 DOWN. THAT'S WHAT HAPPENS. THE FRESH WATER KEEPS THE SALT
5 WATER PUSHED DOWN TO THE DRY LAKE BEDS SIMILAR TO THE OCEAN
6 ENVIRONMENT. FRESH WATER INLAND KEEPS THE SALT WATER JUST
7 BARELY ON COAST.

8 MR. DOLESHAL: IT'S ACTUALLY THE WATER?

9 MR. REED: PRESSURE PUSHING IT AGAINST EACH
10 OTHER.

11 MR. DOLESHAL: NOT A PHYSICAL UNDERGROUND
12 ROCK BARRIER?

13 M-T-A
14 MR. REED: NO. MATTER OF FACT, IT'S MORE OF
15 A GRADIENT BETWEEN THE TWO. YOU CAN DEFINITELY SEE THAT
16 GRADIENT, THAT GRADIENT LINE THAT WE WILL SHOW THERE, THAT'S
17 1000 MILLIGRAMS THAT'S WHERE THE THOUSAND MILLIGRAMS PER
18 MILLILITER WOULD BE. 300 UP IN HERE, MILLIGRAMS, PER LITER,
A LOT HIGHER.

19 MS. SALENIUS: SIR, COULD WE HAVE YOUR NAME?

20 MR. DOLESHAL: YES, DENNIS DOLESHAL,
21 D-O-L-E-S-H-A-L.

22 MS. SALENIUS: OKAY. AND YOU SIGNED IN SO WE
23 HAVE YOU ON THE SIGN-IN SHEET.

24 WITH THAT, I'D CERTAINLY LIKE TO THANK YOU FOR
25 COMING TODAY. IT'S A LONG DRIVE FOR SOME OF YOU, AND WE

1 CERTAINLY APPRECIATE THAT FACT THAT YOU'RE CONTRIBUTING TO
 2 THIS PROCESS. AND WE LOOK FORWARD TO ANSWERING QUESTIONS
 3 THAT PEOPLE HAVE IN THE FINAL ENVIRONMENTAL DOCUMENT.

4 THANK YOU VERY MUCH.

5 MR. RIDDLE: I THINK HE ALREADY ANSWERED ANY
 6 OF THE QUESTIONS I HAD FROM THE LAST MEETING. I'M DON
 7 RIDDLE, RETIRED SCHOOL BUS DRIVER FROM AMBOY.

8 MS. SALENIUS: OKAY.

9 MR. REED: WHY DON'T WE CLOSE IT ALL UP.

10 MS. SALENIUS: YEAH. THANK YOU. I GUESS
 11 WE'LL CLOSE THIS PORTION OF THE PUBLIC HEARING, PROCEED ON
 12 TO 29 PALMS THIS EVENING AND NEEDLES TOMORROW NIGHT.

13 THANK YOU.

14 (THE PUBLIC HEARING WAS CONCLUDED AT 11:43 A.M.)

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M1-2

CERTIFICATE OF REPORTER

STATE OF ARIZONA)

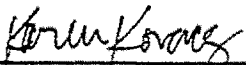
COUNTY OF MOHAVE)

I, KAREN KOVACS, C.C.R., R.P.R. DO HEREBY

CERTIFY THAT I TOOK DOWN IN SHORTHAND (STENOGRAPH) ALL OF THE PROCEEDINGS HAD IN THE ABOVE-ENTITLED MATTER AT THE TIME AND PLACE INDICATED, AND THAT THEREAFTER SAID SHORTHAND NOTES WERE TRANSCRIBED INTO TYPEWRITING AT AND UNDER MY DIRECTION AND SUPERVISION, AND THE FOREGOING TRANSCRIPT CONSTITUTES A FULL, TRUE AND ACCURATE RECORD OF THE PROCEEDINGS HAD.

IN WITNESS WHEREOF, I HAVE HEREUNTO AFFIXED MY HAND THE 30TH DAY OF DECEMBER, 1999.

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KAREN KOVACS, C.C.R., R.P.R.

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