The Arizona Border Study

An Extension of the
Arizona National Human Exposure Assessment Survey (NHEXAS)Study
Sponsored by the Environmental Health Workgroup of the Border XXI Program

Quality Systems and Implementation Plan for Human Exposure Assessment

The University of Arizona
Tucson, Arizona 85721

Cooperative Agreement CR 824719

Standard Operating Procedure **SOP-UA-D-35.0**

Title: Coding: Technician Walk-Through Questionnaire

Source: The University of Arizona

U.S. Environmental Protection Agency
Office of Research and Development
Human Exposure & Atmospheric Sciences Division
Exposure & Dose Research Branch

~~Environmental Protection Agency~~ ESG 7.10.97
~~Contract Number: CR821560~~ ESG 7.10.97

~~NHEXAS Arizona Project~~ FSC 7.10.97

Title: **CODING: TECHNICIAN WALK-THROUGH QUESTIONNAIRE**

Document No. UA-D-35.0	APPROVALS
ESG 7.10.97 7.10.97 ESG 7.10.97 ☒ Full SOP ☒ Working SOP #pages 23 2	On Site Principal Investigator:
Issue Date: June 1997	Project QA Director:
Revision No. 0	Independent Reviewer:
Revision No: Revision Date: Revision Made:	On Site PI: Project QA Director: Independent Reviewer:
Revision No: Revision Date: Revision Made:	On Site PI: Project QA Director: Independent Reviewer:

Distributed To:	Revision No. 1	2	3	4	5	6

Form TP-1

Coding: Technician Walk-Through Qx

1.0 Purpose and Applicability

This procedure defines the coding strategy for the Technician Walk-Through Questionnaire. This questionnaire was developed for use in NHEXAS, the Border Study, and other Health and Environment Projects.

2.0 Definitions

2.1 BORDER STUDY : An alias for "Total Human Exposure Arizona: A comparison of the border communities and the state" conducted in Arizona by the University of Arizona/Battelle/Illinois Institute of Technology consortium.

2.2 CODE, GLOBAL: A set of standard codes used in data within the Respiratory Sciences Center designating the status of a data field in three cases: datum refused, datum non-applicable, and datum missing.

2.3 HEALTH AND ENVIRONMENT PROJECTS (or H & E) : An umbrella title for all projects funded to M. D. Lebowitz and/or M.K. O'Rourke (or their designees) which examine purported or real relationships among environmental factors and any aspect of human health.

2.4 HRP SITE: The **H**ealth **R**elated **P**rofessions building, located at 1435 North Fremont Avenue; Tucson, AZ 85719. This is an annex of the Respiratory Sciences Center and the primary site of NHEXAS Arizona.

2.5 NHEXAS Arizona: Acronym for **N**ational **H**uman **EX**posure **A**ssessment **S**urvey, a research project conducted in Arizona by the University of Arizona/Battelle/Illinois Institute of Technology Consortium.

3.0 References

Teleform 5.0, Copyright 1991-1996 by Cardiff Software, Inc., San Marcos, CA.

4.0 Discussion

The Technician Walk-Through Questionnaire is a scanable form. The questionnaire will be completed by the field technician in the subject's home. It will be QA checked, coded, and scanned directly into a database.

The OMB approved questions were formatted into a scanable form using the Teleform program package and following procedures outlined in SOP # UA-D-

30.x. This package has a dictionary feature and a feature that prints out the characteristics of each created form.

The overall coding scheme will follow SOP# UA-D-31.x: Global Coding for scanned Forms. The data will be stored as flat ASCII files and re-coded according to EPA's coding scheme when it is ready to be submitted to EPA.

A final version of the Technician Walk-Through Questionnaire scanable form is presented in the attached Appendix A. A description of all fields and variables may be found in UA-D-36.x Appendix B. Field descriptions contain the name of the field on the form, the variable name, the object id attributes, the constraint level for recognition of the code, the length of the field and the type of the field (i.e., hand writing recognition, and automated Dictionary Correction, etc.).

Special Coding lists will be developed as needed to accommodate unanticipated responses. A summary table of questions needing specific codes and coding lists used are found in Table 1.

5.0 Responsibilities

The Project Data Coordinator is responsible for creating the forms, defining the databases and writing the coding instructions for the Technician Walk-Through Questionnaire form.

6.0 Materials and Reagents

6.1 Codes are to be written with a black felt tip pen only.

6.2 Questionnaires are put into a batch once they are coded and recorded on the Batch Description and Custody Recorded.

6.3 Those coding lists that are not in the Coding Lists notebook can be found on line in the /rsc53/TrackNHEXAZ/codes/ directory. The coding lists that pertain to the Technician Walk-Through Questionnaire are listed in section 8.0 Records, and include Tables 2 through 13.

6.4 Networked Computer Workstation that can access FoxPro.

6.5 Microsoft FoxPro Professional Edition version 2.6, Copyright 1989-1993 Microsoft Corporation.

6.6 Coding Program v1.0, developed in-house using FoxPro 2.6.

7.0 Procedural Steps for Coding of the Technician Walk-Through Questionnaire

7.1 Preparation

A. Remove a batch of Technician Walk-Through Questionnaires forms from the Data Coordinator's office.
B. Bring forms to an area where coding can be done.
C. Use only a black felt-tip pen for coding.
D. Find the Coding Lists notebook which contains the coding list specified in Table 1 and bring it to the coding area.

7.2 Coding Forms

A. Begin by checking for missing information, illogical answers, and necessary codes throughout the entire form.
B. Follow the Global Coding scheme (UA-D-31.x) as necessary.
C. If there is no code appropriate to the given response then create a new code and add it to the coding list according to the procedure found in UA-D-31.x.

7.3 Creation of a New Code

A. New codes can be added by the Data Coordinator or his or her designee.
B. See UA-D-31.x for the procedure to create a new code.

8.0 Records

Inclusions:

Table 1. Questionnaires Needing Codes & Coding Lists
Table 2. Other Drip Line Code
Table 3. Other Siding Code
Table 4. Other Roof Code
Table 5. Other Foundation Code
Table 6. Relation Code
Table 7. Other Room Code
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Table 10. Carpet Code
Table 11. Other Area Code
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Appendix A. Technician Walk Through

Table 1. Questionnaires Needing Codes & Coding Lists

Questionnaire Type	Question Number	Coding List Name	Location	SOP # & Table# of Coding List
FOLLOW UP	6C	TYPE OF ANTACID MEDICATION	/rsc53/TrackNHEXAZ/codes/anatacid.dbf	UA-D-11.x / Table 2
FOLLOW UP	6B	TYPE OF CHELATING AGENT	/rsc53/TrackNHEXAZ/codes/chelate.dbf	UA-D-11.x / Table 4
FOLLOW UP	7C	TYPE OF CHROMIUM SUPPLEMENT	/rsc53/TrackNHEXAZ/codes/chromium.dbf	UA-D-11.x / Table 5
FOLLOW UP	7A	TYPE OF CALCIUM SUPPLEMENT	/rsc53/TrackNHEXAZ/codes/calcium.dbf	UA-D-11.x / Table 3
FOLLOW UP	11	TYPE OF DIET	/rsc53/TrackNHEXAZ/codes/diet.dbf	UA-D-11.x / Table 13
FOLLOW UP	6A	DIURETIC MEDICATION	/rsc53/TrackNHEXAZ/codes/diuretic.dbf	UA-D-11.x / Table 6
FOLLOW UP	6A-7D	DOSAGE ACCORDING TO LABELING	/rsc53/TrackNHEXAZ/codes/dosage.dbf	UA-D-11.x / Table 16
FOLLOW UP	1o	OTHER TYPE OF FILTERING DEVICE	/rsc53/TrackNHEXAZ/codes/filter.dbf	UA-D-7.x / Table 14
FOLLOW UP	6D	HORMONE SUPPLEMENT	/rsc53/TrackNHEXAZ/codes/hormone.dbf	UA-D-11.x / Table 7
FOLLOW UP	7D	MULTI VITAMIN SUPPLEMENTS	/rsc53/TrackNHEXAZ/codes/multi.dbf	UA-D-11.x / Table 8
FOLLOW UP	6A-7D	SPECIFIC MEDECINE NAME	/rsc53/TrackNHEXAZ/codes/m_cod.dbf	UA-D-11.x / Table 11
FOLLOW UP	6E	OTHER TYPES OF MEDICATION	/rsc53/TrackNHEXAZ/codes/other.dbf	UA-D-11.x / Table 9
FOLLOW UP	6E	OTHER UNIT OF MEASURE	/rsc53/TrackNHEXAZ/codes/o_unit.dbf	UA-D-11.x / Table 12
FOLLOW UP	7B	SELENIUM SUPPLEMENT	/rsc53/TrackNHEXAZ/codes/selenium.dbf	UA-D-11.x / Table 10
FOLLOW UP	6 & 7	CODING LIST NOTEBOOK - MEDICAL CATEGORY	DATA COORDINATOR'S OFFICE	UA-D-11.x / Table 15
TECHNICIAN QX	11	TYPE OF CARPETING	/rsc53/TrackNHEXAZ/codes/carpet.dbf	UA-D-35.x / Table 10
TECHNICIAN QX	6A	TYPE OF LAND AROUND HOME	/rsc53/TrackNHEXAZ/codes/area.dbf	UA-D-35.x / Table 12
TECHNICIAN QX	11	CLEANING PRODUCT USED	/rsc53/TrackNHEXAZ/codes/cleanmet.dbf	UA-D-35.x / Table 9
TECHNICIAN QX	6G	OTHER DRIPLINE	/rsc53/TrackNHEXAZ/codes/dripline.dbf	UA-D-35.x / Table 2
TECHNICIAN QX	6J	TYPE OF FOUNDATION	/rsc53/TrackNHEXAZ/codes/found.dbf	UA-D-35.x / Table 5
TECHNICIAN QX	6J	YARD MATERIAL	/rsc53/TrackNHEXAZ/codes/material.dbf	UA-D-35.x / Table 1
TECHNICIAN QX	6H	ROOF TYPE	/rsc53/TrackNHEXAZ/codes/roof.dbf	UA-D-35.x / Table 4
TECHNICIAN QX	10C	OTHER TYPE OF SAMPLING	/rsc53/TrackNHEXAZ/codes/o_samp.dbf	UA-D-35.x / Table 8
TECHNICIAN QX	6C	TYPE OF HOUSE SIDING	/rsc53/TrackNHEXAZ/codes/siding.dbf	UA-D-35.x / Table 3
TECHNICIAN QX	9	RELATION	/rsc53/TrackNHEXAZ/codes/relation.dbf	UA-D-35.x / Table 6
BASELINE QX	18B	WHERE TIME SPENT AWAY FROM HOME	/rsc53/TrackNHEXAZ/codes/away.dbf	UA-D-7.x / Table 9
BASELINE QX	37D	WHAT IS BURNED IN THE FIREPLACE	/rsc53/TrackNHEXAZ/codes/burnf.dbf	UA-D-7.x / Table 21
BASELINE QX	36C	WHAT IS BURNED IN THE STOVE	/rsc53/TrackNHEXAZ/codes/burns.dbf	UA-D-7.x / Table 20
BASELINE QX	14F	TYPE OF CLOTHING AT WORK	/rsc53/TrackNHEXAZ/codes/clothing.dbf	UA-D-7.x / Table 5
BASELINE QX	14G	DUST RESPONDENT EXPOSED TO	/rsc53/TrackNHEXAZ/codes/dust.dbf	UA-D-7.x / Table 6
BASELINE QX	31	OTHER FUEL CODES	/rsc53/TrackNHEXAZ/codes/fuel.dbf	UA-D-7.x / Table 19
BASELINE QX	14H	FUMES ENCOUNTERED IN THE WORK PLACE	/rsc53/TrackNHEXAZ/codes/fumes.dbf	UA-D-7.x / Table 7
BASELINE QX	27B	LOCATION OF HOUSE'S GARAGE	/rsc53/TrackNHEXAZ/codes/garage.dbf	UA-D-7.x / Table 17
BASELINE QX	14C	JOB TITLE/CLASSIFICATION	/rsc53/TrackNHEXAZ/codes/job.dbf	UA-D-7.x / Table 3
BASELINE QX	14D	JOB DUTIES	/rsc53/TrackNHEXAZ/codes/jobd.dbf	UA-D-7.x / Table 4
BASELINE QX	14B	BUSINESS	/rsc53/TrackNHEXAZ/codes/jobi.dbf	UA-D-7.x / Table 2
BASELINE QX	38I, 39G	MIX CODES	/rsc53/TrackNHEXAZ/codes/mix.dbf	UA-D-7.x / Table 23
BASELINE QX	30D	TYPE OF COOLER PADS	/rsc53/TrackNHEXAZ/codes/pad.dbf	UA-D-7.x / Table 18
BASELINE QX	43F	FLEA AND TICK PESTICIDES	/rsc53/TrackNHEXAZ/codes/petchem.dbf	UA-D-7.x / Table 24
BASELINE QX	38C	TYPE OF SURFACE TREATED	/rsc53/TrackNHEXAZ/codes/surface.dbf	UA-D-7.x / Table 22
BASELINE QX	19	METHOD OF GETTING TO WORK	/rsc53/TrackNHEXAZ/codes/transport.dbf	UA-D-7.x / Table 7
BASELINE QX	26C,D & E	SOURCE OF WATER	/rsc53/TrackNHEXAZ/codes/wtrsorce.dbf	UA-D-7.x / Table 13
BASELINE QX	26B	MAIN WATER SUPPLIER	/rsc53/TrackNHEXAZ/codes/water.dbf	UA-D-7.x / Table 12
BASELINE QX	H,N,S,V,W	DISEASE CODES NOTEBOOK	DATA COORDINATOR'S OFFICE	UA-D-7.x / Table 11
BASELINE QX	14j,16j,38f,39d	CODING LIST NOTEBOOK - PESTICIDES	DATA COORDINATOR'S OFFICE	UA-D-7.x / Table 8
N/A	N/A	LISTING OF DATABASES (THIS LIST)	/rsc53/TrackNHEXAZ/codes/codelist.dbf	N/A
ALL FORMS HAVING COMMENTS	N/A	COMMENTS MADE BY FIELD TECHS	/rsc53/TrackNHEXAZ/codes/comment.dbf	UA-D-31.x / Table 2
FOOD DIARY FOLLOW UP	12, 14	REASON SOMETHING WAS/WASNT DONE	/rsc53/TrackNHEXAZ/codes/reason.dbf	UA-D-10.x / Table 3
GLOBAL CODE	N/A	RELATION	/rsc53/TrackNHEXAZ/codes/relation.dbf	UA-D-31.x / Table 3
DESCRIPTIVE	P.7	RACE	/rsc53/TrackNHEXAZ/codes/	UA-D-6.x / Table 2
24 HOUR FOOD DIARY CHECK	A-N	DIET DIARY	UA-D-43.x Appendix A	UA-D-13.x / Table 2

Table 2. Other Drip Line Co

CODE	DESCRIPTION
01	6 INCHES
02	ON CARPORT, 12 FEET
03	2 - 8 FEET
04	ROOF SLANTED W/OVERHANG, NO DRIP
05	FROM WALLS
06	NO GUTTERS

Table 3. Other Siding Code

CODE	DESCRIPTION
01	ADOBE
02	LATEX
03	PARTICLE BOARD
04	FIBERGLASS
05	TIN
06	SLUMP BLOCK
07	CONCRETE
08	CEMENT PLASTER
09	DECORATIVE ROCK
10	SHEAR ROCK BOARD (MUD HOME)
11	LAMINATED
12	ADOBE AND PLASTIC
13	STEEL PIPE
14	MASONRY/MONTAR
15	METAL LAMINATED
16	PLASTER OVER WOOD/CHICKEN WIRE FRAME
17	STANDING SEAM-ALUMINUM WEATHER GUARD
18	WOOD PANELING
19	WOOD AND BRICK PAINTED OVER
20	MANUFACTURED HOME LAMINATED
21	CEMENT
22	SHEET ROCK

Table 4. Other Roof Code

CODE	DESCRIPTION
01	ALUMINUM
02	TERRA COTA SHINGLES
03	FOAM
04	SPANISH TILE
05	FIBERGLASS
06	TIN
07	DOESN'T KNOW, DK
08	CONCRETE
09	GRAVEL
10	METAL
11	SHINGLES
12	CEMENT TILE
13	ROOFING PAPER
14	REFLECTIVE PAINT (E.G. KOOL KOTE)
15	GALVINIZED CORRUGATED
16	FELT ROLL
17	LAMINATED FOR MOBILE HOME
18	TILE, NON-SPECIFIC
19	ROCKS
20	FIBERGLASS SHINGLES
21	CORRUGATED TIN
22	TILE SHINGLES
23	BRICK SHINGLES
24	BRICK TILE
25	TAR PAPER
26	CLAY SHINGLES
27	CEMENT SHINGLES

Table 5. Other Foundation Code

CODE	DESCRIPTION
01	MOBILE HOME SITTING ON GROUND
02	GARAGE BENEATH HOUSE
03	PARTIAL BASEMENT
04	APARTMENT BENEATH
05	NO FOUNDATION
06	HOUSE SET ON BLOCKS
07	WOOD
08	RAISED OFF GROUND
09	FOOTING
10	CRAWL SPACE
11	CEMENT SHAPED IN ROCKS

Table 6. Relation Code

CODE	DESCRIPTION
01	MOTHER
02	FATHER
03	BROTHER
04	SISTER
05	DAUGHTER
06	WIFE
07	FRIEND
08	UNCLE
09	HUSBAND
10	SON
11	GRANDFATHER
12	GRANDMOTHER
13	GRANDSON
14	GRANDDAUGHTER
15	STEPFATHER
16	HALF-BROTHER
17	HALF-SISTER
18	CAREGIVER
19	COUSIN
20	NEPHEW
21	NIECE
22	MOTHER-IN-LAW
23	STEP SON
24	EX-HUSBAND
25	BOYFRIEND
26	AUNT
27	BROTHER-IN-LAW
28	DAUGHTER-IN-LAW
29	GIRLFRIEND
30	ROOMMATE
31	STEP MOTHER
32	SON IN LAW
33	STEP-BROTHER
34	FOSTER DAUGHTER
35	HOUSEKEEPER
36	ADOPTED DAUGHTER
37	ADOPTED SON
38	FORMER ROOMMATE
39	FOSTER CHILD
40	GUEST
41	GRANDCHILD
44	SELF

Table 7. Other Room Code

CODE	DESCRIPTION
00	YARD, NOI
01	BEDROOM 1
02	BEDROOM 2
03	BEDROOM 3
04	BEDROOM 4
05	BEDROOM 5
06	BEDROOM 6
07	BEDROOM 7
08	BEDROOM 8
10	OUTSIDE, NOI
11	ATTIC, ROOF, OR CEILING
12	BASEMENT
13	DARKROOM, WORKSHOP, WEIGHTROOM
14	DEN, STUDY, OFFICE, BAR, MUSIC/SEW ROOM
15	DINING ROOM
16	ENCLOSED PORCH, ARIZONA, ATRIUM, FOYER
17	GARAGE
18	HALLWAY
19	KITCHEN
20	LAUNDRY, BOILER, UTILITY
21	MAIN, FAMILY
22	MASTER BATH, VANITY
23	OPEN PORCH, BACK PORCH
24	PANTRY, STOREROOM, CLOSET
25	SECOND BATH, GUEST BATH
26	LIVING ROOM
27	TV ROOM, PLAYROOM
28	THIRD BATH
29	OTHER/FRIEND'S HOUSE
30	MOTHER'S HOUSE
31	FRONT YARD
33	OTHER ROOM
34	BACKYARD
35	PERSON DOESN'T KNOW, DK
36	WINDOW SILL
38	STREET
39	DRIVEWAY
40	BREAKFAST NOOK
41	LOFT
42	OTHER ROOM 2
43	OTHER ROOM 3
44	OTHER ROOM 4
45	OTHER ROOM 5
46	FIREPLACE
47	CARPORT
48	BABYSITTER'S
49	WHILE IN TRANSIT, IN CAR
50	GOLF COURSE
51	BEDROOM 1 AND 2
52	STORAGE IN BEDROOM
53	KITCHEN SINK
54	DOOR
55	AUNT'S HOUSE
56	RESTAURANT
57	FRONT ROOM
58	STUDIO
59	GREENHOUSE
60	PORCH
61	COMPANY'S OFFICE
62	OUTDOOR FAIR/EVENT
63	SUPER MARKET
64	MASTER BEDROOM
65	STORAGE ROOM
66	FRIEND'S
67	CHURCH
68	BOYS AND GIRLS CLUB
69	KINDERGARDEN
70	TOWNHOUSES
71	CONDOMINIUM
72	SON'S HOME
73	BY TRUCK SIDE
74	LITTLE BIT HIGHER TAHN MAIN L. QUATERS
75	PREMIXED
76	SHED, DETACHED STORAGE
77	SECOND OFFICE
78	PARK
79	LOWER THAN MAIN LIVING QUARTERS
80	UPPER LEVEL
81	SIDE/BACK OF HOUSE
82	EXTRACURRICULAR ACTIVITIES (PRACTICE)
83	HEAD START/SCHOOL
99	MISSING INFO/LOCATION

Table 8. Other Sample Code

CODE	DESCRIPTION
01	SILL WIPE
02	SENTINEL
03	WATER - BIOLOGICAL
04	YARD SOIL
05	FFP-IN
06	FFP-OUT
07	FFP
08	H2B (2)
09	PAH-IN
10	SPMD IN/OUT
11	H2B
12	SPMD-IN
13	SPMD-OUT
14	PAH-OUT
15	BLOOD (PEST)
16	HAR
17	BSL
18	BSP
19	PAH
20	BLP
21	HAIR
22	UNKNOWN PESTS. LIQUID
23	ACTIVE VOC (IN/OUT)

Table 9. Cleaning Method Code

CODE	DESCRIPTION
-9	MISSING
01	NEW CARPET/NEVER CLEANED
02	STEAM CLEANER
03	CHEM/DRY
04	DO IT YOURSELF
05	BISSEL STEAM
06	PROFESSIONAL
07	CARPET DRY FOAM
08	BLEACH
09	RESPONDENT DOESN'T KNOW/ DK
10	NEVER CLEANED BY RESPONDENT
12	MOP & GLOW
22	WATER
23	PINALEN
24	NOW
25	SWEEP
26	MR. CLEAN
27	MOPPED
28	SOAP & WATER
29	SIMPLE GREEN
30	VINEAGAR & WATER
31	DETERGENT & WATER
32	VACUUM
33	SHAMPOO
34	FOAM KIRBY
35	THERMAX
36	SPIC & SPAN
37	PINE SOL
38	AMMONIA
39	MURPHY'S OIL SOAP
40	LEMON POWER
41	EARTH-RITE
42	TIDE
43	LYSOL AND WATER
44	CABINET MAGIC
45	FORMULA 409
46	AQUA MIX CO. GROUT CLEANER
47	WAX
48	ONCE 'N DONE

CODE	DESCIPTION
49	CRYSTAL WHITE
50	EXTRACTION
51	COMET AND WATER
52	ARIEL SOAP
53	ARMSTRONG CERAMIC CLEANER
54	LAUNDRY SOAP & WATER
55	OIL FOR WOOD
56	SWEEP AND MOP
57	DOVE
58	QUICK CLEAN FOR NO WAX FLOORS
59	BLEACH / PINE SOL / WATER
60	DOW ANTI-BACTERIA
61	MURPHY'S SQUIRT & WASH SOAP
62	ACCUMIX
63	RESOLVE--DO IT YOURSELF
64	PINE SOL AND WATER
65	CLOROX
66	PLEDGE
67	BLEACH WITH WATER
68	PALMOLIVE LIQUID WITH WATER
69	FABULOSO
70	PINE SOL AND CLOROX
71	GENERIC MASTER CLEANER
72	PINESOL AND WAX
73	LINSEED 50% AND THINNER 50%
74	CLEANING SUPPLIES
75	SHAMPOO AND WATER
76	PROFESSIONAL WAX
77	CLOROX/PINSOL/FABULOSO
78	FABULOSO AND WATER
79	EASY OFF AND WATER
80	VEL ROSITA AND WATER
81	MAESTRO LIMPIO AND WATER
82	CARPET UPHOLSTRY DETERGENT AND WATER
83	POWDER (AROMA)
84	AJAX
85	MOP W/ MR. CLEAN
86	MOP W/WATER
87	MURPHY'S OIL SOAP & WATER

Table 10. Carpet Code

CODE	DESCRIPTION
01	RUG
02	INDOOR/OUTDOOR CARPET
03	CARPET PADDING
04	SHAG
05	LARGE WOVEN RUG

Table 11. Other Area Code

CODE	DESCRIPTION
01	WILDERNESS AREA
02	SCHOOL
03	DESERT
04	RANCH
05	COPPER SMELTER
06	MINING
07	GRAVEL
08	OLD CARS
09	ROCKS
10	TILE
11	CEMETARY
12	BRICK
13	WOOD
14	ASPHALT ROOFTOP
15	FLAGSTONE
16	METALS
17	WOODEN DECK
18	OVERPASS FOR MAJOR ROAD
19	CLOSE TO FREEWAY
20	SPANISH TILE
21	IRON
22	TOOLS
23	CONCRETE
24	UNDEVELOPED LAND
25	MEXICO/US BORDER
26	INACTIVE OLD MINE
27	LAMINA PLATE
28	TREES
29	OUTSIDE
30	BACKYARD
31	GAS STATION
32	BASEMENT
33	CHAIN LINK FENCE

Table 12. Other Material

CODE	DESCRIPTION
01	GRAVEL
02	BRICK
03	ROCKS
04	VOLCANIC ROCK
05	FLAGSTONE
06	VEGETATION
07	FISH POND
08	INDOOR/OUTDOOR CARPET
09	WEEDS
10	SAND
11	TILE
12	GRASS TURF
13	SCRAP METAL
14	CERAMIC TILE
15	TREES
16	PLASTIC
17	PAINTED CEMENT
18	ASSORTED CAR PARTS
19	DIRT
20	CARPORT
21	ASTROTURF
22	WHITE ROCK
23	TERRACOTA TILE
24	PLANTS
25	PORCH
26	STEEL PIPES
27	MULCH
28	RIVER ROCKS/WEEDS
29	APPLIANCES,BIKES,MATRESSES
30	CLAY TILE AND BRICKS
31	FLOWER BEDS
32	ROSES
33	PALM TREES
34	MEXICAN BRICK
35	DECORATIVE ROCKS
36	FRUIT TREES AND ASSORTED SCRAP
37	CARPET PIECES ALONG WALKWAY
38	VEGATATION AND CARPET PIECES
39	RIVER ROCK, DESERT VEGATATION
40	IRON (STAIRS)
41	ALUMINUM FENCE
42	BRUSH

Appendix A. Technician Walk Through

TECHNICIAN WALK-THROUGH QUESTIONNAIRE

National Human Exposure Assessment Survey

Item num
Form Type: 0 8

NHEXAS Form ID: UA-T-1.0-3.0

Study
Study: ○ 1. NHEXAS ○ 2. Border ○ 3. _____ ○ 4. _____ ○ 5. _____

Stage
Stage #:
Collapsed? Collapse Y N 8

Administered By:
Init.
Tech. ID
Tech ID

HHID HHID F.S.
Administration Date HHIDFS
MO / DAY / YR
Eventdate

Complete this questionnaire by observation. You may ask participant any questions that are not apparent.

QC / CODING

1. How many stories (floors) are in this building? ***Count only floors with finished rooms for living purposes or full basements. (Do not include sub-basements.)***

   Floor(s): Floors

   If multi-family building — Continue
   Else — Go to question #3

   ☐QC ☐-5.R ☐-8.N ☐-9.M

2. Which floor(s) do respondents live on? ***List each floor.***

   Floor#: F-live 1 Floor#: F-live 2 Floor#: F-live 3 Floor#: F-live 4 Floor#: F-live 5

   ☐QC ☐-5.R ☐-8.N ☐-9.M

3. How many rooms are carpeted or have rugs covering most (>50%) of their surface?

   Rooms: Roomscarp [ ] N/A or no room(s) is carpeted.

   ☐QC ☐-5.R ☐-8.N ☐-9.M

4. Using the following statements, how would you rate the overall dust level within the residence? ***Fill in ONE bubble.***

   Dust-lev
   ○ 1. Very Dusty
   ○ 2. Some Dust -- obvious efforts to control dust
   ○ 3. "No" Dust -- extreme dust control, very clean

   ○ 55.R ○ 88.N ○ 99.M

   Additional Comments on dust control: _____

   Dust-com
   Dust Com.

5. Indicate nearest major intersection: (Eg., Park and Speedway)

   Street 1 & Street 2

Formstat

OFFICE USE ONLY

Form Status: ○ 1.Cmp ○ 2.N Cmp ○ 3.P Cmp ○ 4.Re-col ○ 5.Ref ○ 7.Dest ○ 8.N/A ○ 9.Miss

QC: QCBY Init. Tech. ID MO QC DATE DAY / YR

QA: QABY Init. Tech. ID MO QA DATE DAY / YR

DE: DEBY Init. Tech. ID MO DE DATE DAY / YR

DP Batch: DP BATCH QXV: QTEC1

Data Use Only:	0 1	2 3	4 5	6 7	8 9	A B	C D	E F	G H	I J
	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○

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Appendix A (Continued). Technician Walk Through

EXTERIOR AND INTERIOR RESIDENTIAL CHARACTERISTICS

PAGE 2

Technician Qx

QC / CODING

6 a. Surrounding area (within a quarter mile radius of this property): ***Fill in bubbles of ALL THAT APPLY.***

Resident ○ 1. Residential
Recreatl ○ 2. Recreational
Commerci ○ 3. Commercial
Industrl ○ 4. Industrial
Agricult ○ 5. Agricultural
Neighoth ○ 6. Other (specify:_____)

(Shade bubbles of dominant land uses.)

○ 55.R Neigh-ref
○ 88.N Neigh-Na
○ 99.M Neigh-mis
○ Area:
O-area

6 b. Distance to street:
Measure the distance from the curb to the primary entrance to the residence or shade bubble if distance is estimated to be greater than 300 feet.

Feet (<300) : ☐☐☐ Dist-str

OR

Fill bubble if true:
○ 1. Curb is > 300 feet from primary entrance Gt-300ft

○ 55.R
○ 88.N
○ 99.M

6 c. Exterior siding material (including foundation): ***Fill in bubbles of ALL THAT APPLY.***

Ext-wood ○ 1. Wood
Ext brick ○ 2. Brick
Extvinyl ○ 3. Vinyl / aluminum
Ext conor ○ 4. Concrete block
Extstucc ○ 5. Stucco
Extasbes ○ 6. Asbestos / asphalt
Ext-oth ○ 7. Other (specify:_____)

○ 55.R Ext-ref
○ 88.N Ext-Na
○ 99.M Ex-Mis
○ Siding:
O-siding

6 d. Is there paint on any <u>exterior</u> surface that is chalking, chipping, or peeling? ***Fill in ONE bubble.***

○ 1. Yes
○ 2. No
○ 3. Not painted

Ext-pnt

○ 55.R
○ 88.N
○ 99.M

6 e. Is there paint on any <u>interior</u> surface that is chalking, chipping, or peeling? ***Fill in ONE bubble.***

○ 1. Yes
○ 2. No
○ 3. Not painted

Int-pnt

○ 55.R
○ 88.N
○ 99.M

6 f. Material around <u>primary entrance</u> to structure: ***Fill in bubbles of ALL THAT APPLY.***

(Primary entrance = most often used.)

Ent-soil ○ 1. Soil
Entgrass ○ 2. Grass
Entcemnt ○ 3. Cement / asphalt / brick
Ent-grav ○ 4. Gravel
Ent-wood ○ 5. Wood ..... (If deck, yes; if door frame, no.)
Ent-oth ○ 6. Other (specify:_____)

○ 55.R Ent-ref
○ 88.N Ent-Na
○ 99.M Ent-mis
○ Material:
O-entmat

Data Use Only:	0 1	2 3	4 5	6 7	8 9	A B	C D	E F	G H	I J
	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○

941

Appendix A (Continued). Technician Walk Through

HHID: FS:

PAGE 3

Technician Qx

6 g. Dripline: ***Fill in ONE bubble.***

Dripline ft. from wall:

Dripline

Drip-Ft

- ○ 1. At wall
- ○ 2. Gutters -- no dripline
- ○ 3. _____ feet from wall
- ○ 4. Other (specify:_____)

6 h. Roof type and composition: ***Fill in bubbles of ALL THAT APPLY.***

Tar-roof ○ 1. Tarred roof -- petroleum base
Sealroof ○ 2. Sealed with roof protector
Woodroof ○ 3. Wood shakes / shingles
Asphroof ○ 4. Composition asphalt shingles
Roof-oth ○ 5. Other (specify:_____)

6 i. Yard material: ***Fill in bubbles of ALL THAT APPLY.***

Yd-soil ○ 1. Soil
Yd-grass ○ 2. Grass
Yd-porch ○ 3. Porch / balcony
Yd-cemnt ○ 4. Cement
Yd-wood ○ 5. Wood / deck
Yd-oth ○ 6. Other (specify:_____)
Yd-notap ○ 7. Not applicable

6 j. Types of foundation: ***Fill in bubbles of ALL THAT APPLY.***

Fnd-slab ○ 1. Slab
Fnd-crawl ○ 2. Crawl space
Fnd-combo ○ 3. Combination crawl space / basement
Fnd-base ○ 4. Full basement
Fnd-oth ○ 5. Other (specify:_____)
Fnd-dk ○ 6. Don't know

7 a. Does this residence have a swimming pool? ***Fill in ONE bubble.***

- ○ 1. Yes ..... ***Continue below***
- ○ 2. No ..... ***GO TO Question # 8 a***

Swimpool

7 b. Where is the swimming pool located? ***Fill in ONE bubble.***

○ 1. Inside ○ 2. Outside

swim-loc

8 a. Does this house or apartment have a hot tub or jacuzzi? ***Fill in ONE bubble.***

- ○ 1. Yes ..... ***Continue below***
- ○ 2. No ..... ***STOP***

Hot-tub

8 b. Where is the hot tub or jacuzzi located? ***Fill in ONE bubble.***

○ 1. Inside ○ 2. Outside

Htub-loc

QC / CODING

- ○ 55.R
- ○ 88.N
- ○ 99.M

O Dripline:

O-dripLt

- ○ 55.R Roof-ref
- ○ 88.N Roof-na
- ○ 99.M Roof-mis

O Roof:

O-roof

- ○ 55.R Yd-ref
- ○ 88.N (def.) Yd-na
- ○ 99.M Yd-mis

O Mat.:

O-ydmat

- ○ 55.R Fnd-ref
- ○ 88.N Fnd-na
- ○ 99.M Fnd-mis

O Found:

O-Found

- ○ 55.R
- ○ 88.N
- ○ 99.M

- ○ 55.R
- ○ 88.N
- ○ 99.M

- ○ 55.R
- ○ 88.N
- ○ 99.M

- ○ 55.R
- ○ 88.N
- ○ 99.M

Data Use Only: 0 1 | 2 3 | 4 5 | 6 7 | 8 9 | A B | C D | E F | G H | I J

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Appendix A (Continued). Technician Walk Through

SUBJECT TRACKING PAGE 4

Technician Qx

9. Subject Tracking (Arizona Only)

It is vital that the subject number is assigned consistently. Respondent numbers were assigned during the initial contact. Prior to entering the field, record the preassigned respondent numbers and the first name of the subject. Verify the previous information and record additional information. Record the names and status of any previously absent or unreported household members. Assign additional houshold members a respondent number, and notify the Field Coordinator of any changes immediately upon return to the Field Office.

Pre-Assigned IRN	Legal First Name	Date of Birth MO / DAY / YR	Comments:
a Irn-A	Fname-A	DobA-m / DobA-d / DobA-Y	
b Irn-B	Fname-B	DobB-m / DobB-d / DobB-Y	
c. Irn-C	Fname-C	DobC-m / DobC-d / DobC-Y	
d Irn-D	Fname-D	DobD-m / DobD-d / DobD-Y	
e Irn-E	Fname-E	DobE-m / DobE-d / DobE-Y	
f. Irn-F	Fname-F	DobF-m / DobF-d / DobF-Y	
g Irn-G	Fname-G	DobG-m / DobG-d / DobG-Y	
h Irn-H	Fname-H	DobH-m / DobH-d / DobH-Y	
i. Irn-I	Fname-I	DobI-m / DobI-d / DobI-Y	
j. Irn-J	Fname-J	DobJ-m / DobJ-d / DobJ-Y	
k. Irn-K	Fname-K	DobK-m / DobK-d / DobK-Y	
l. Irn-L	Fname-L	DobL-m / DobL-d / DobL-Y	
m. Irn-M	Fname-M	DobM-m / DobM-d / DobL-Y	

☐QC ☐-5.R ☐-8.N ☐-9.M ☐QC ☐X's.R ☐Y's.N ☐Z's.M ☐QC ☐55/55/55.R ☐88/88/88.N ☐99/99/99.M

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Data Use Only:	0 1	2 3	4 5	6 7	8 9	A B	C D	E F	G H	I J
	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○

Appendix A (Continued). Technician Walk Through

HHID: FS.

SUBJECT TRACKING (Cont.) PAGE 5

Technician Qx

Comments: _____

Resp. IRN	Relationship to Respondent 01	Relat. Code	Bedrm# (from diagram)	IRN# During This Visit Series	Change in Respondent Status	Comments:
a. ___	_____	RelPR-A	Bedrm-A	IrnVis-A	Chg-A Y N 8 (def)	
b. ___	_____	RelPR-B	Bedrm-B	IrnVis-B	Chg-B Y N 8 (def)	
c. ___	_____	RelPR-C	Bedrm-C	IrnVis-C	Chg-C Y N 8 (def)	
d. ___	_____	RelPR-D	Bedrm-D	IrnVis-D	Chg-D Y N 8 (def)	
e. ___	_____	RelPR-E	Bedrm-E	IrnVis-E	Chg-E Y N 8 (def)	
f. ___	_____	RelPR-F	Bedrm-F	IrnVis-F	Chg-F Y N 8 (def)	
g. ___	_____	RelPR-G	Bedrm-G	IrnVisG	Chg-G Y N 8 (def)	
h. ___	_____	RelPR-H	Bedrm-H	IrnVis-H	Chg-H Y N 8 (def)	
i. ___	_____	RelPR-I	Bedrm-I	IrnVis-I	Chg-I Y N 8 (def)	
j. ___	_____	RelPR-J	Bedrm-J	IrnVis-J	Chg-J Y N 8 (def)	
k. ___	_____	RelPR-K	Bedrm-K	IrnVis-K	Chg-K Y N 8 (def)	
l. ___	_____	RelPR-L	Bedrm-L	IrnVis-L	Chg-L Y N 8 (def)	
m. ___	_____	RelPR-M	Bedrm-M	IrnVis-M	Chg-M Y N 8 (def)	
☐QC	☐QC	☐QC ☐-5.R ☐-8.N ☐-9.M	☐QC ☐-5.R ☐-8.N ☐-9.M	☐QC ☐-5.R ☐-8.N ☐-9.M	☐QC	

Data Use Only:	0 1	2 3	4 5	6 7	8 9	A B	C D	E F	G H	I J
	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○	○ ○

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Appendix A (Continued). Technician Walk Through

HOUSEHOLD DIAGRAM PAGE 6

Technician Qx

10 a. Overall (approximate) dimensions of the portion of the house or apartment occupied by the residents:

Average Length: ___ ft. (Length) Average Width: ___ ft. (Width) Ceiling Height: ___ ft. (Height)

10 b. Diagram the house and approximate dimensions of each room. Label the Main Room (MR) and the Living Room (LR) or Family Room (FR) if different from the Main Room. Label the Kitchen (KA), and any Other Room (OR). As a convention label the Bedrooms in order of size (B01 = largest, B02 = next largest). Bedrooms of equal size can be labeled arbitrarily. (Room dimensions are to be rounded to the nearest foot.)

Follows same pattern

10 c. Indicate room(s) where samples are collected :

PM	PM LOC	Carpet Dust CP-LOC	Surface Dust SP-LOC	PID PID-LOC	Active VOC AV-LOC	Passive VOC PV-LOC	Passsive HCHO HCHO-LOC	Other A: OTHA-LOC	Other B: OTHB-LOC
PM-MR	MR	MR	MR	MR	MR	MR	MR	MR	MR
PM-LR	LR	LR	LR	LR	LR	LR	LR	LR	LR
PM-FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
PM-KA	KA	KA	KA	KA	KA	KA	KA	KA	KA
PM-B01	B01	B01	B01	B01	B01	B01	B01	B01	B01
PM-B02	B02	B02	B02	B02	B02	B02	B02	B02	B02
PM-B03	B03	B03	B03	B03	B03	B03	B03	B03	B03
PM-B04	B04	B04	B04	B04	B04	B04	B04	B04	B04
PM-OR1	OR1	OR1	OR1	OR1	OR1	OR1	OR1	OR1	OR1
PM-OR2	OR2	OR2	OR2	OR2	OR2	OR2	OR2	OR2	OR2
PM-OR3	OR3	OR3	OR3	OR3	OR3	OR3	OR3	OR3	OR3
PM-OR4	OR4	OR4	OR4	OR4	OR4	OR4	OR4	OR4	OR4
PM-OR5	OR5	OR5	OR5	OR5	OR5	OR5	OR5	OR5	OR5
PM-OR6	OR6	OR6	OR6	OR6	OR6	OR6	OR6	OR6	OR6
PM-AMB	AMB	AMB	AMB	AMB	AMB	AMB	AMB	AMB	AMB
PM-REF	R	R	R	R	R	R	R	R	R
PM-N/A	N	N	N	N	N	N	N	N	N
PM-MISS	M	M	M	M	M	M	M	M	M

10 d. Personal Air:

[ ] N/A

PA- or IRN

IRN #:

If applicable, write names of any other rooms (OR) on line(s) below:

OR1: _____
OR2: _____
OR3: _____
OR4: _____
OR5: _____
OR6: _____

O. Samp A: 0_SampA O. Samp B: 0_SampB

CODING

OR1: OR1-Code
OR2: OR2-Code
OR3: OR3-Code
OR4: OR4-Code
OR5: OR5-Code
OR6: OR6-Code

Pagelink QC: Init:: _____ Data Use Only: 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J

941

Appendix A (Continued). Technician Walk Through

10949

11. Characteristics of floor surfaces and cleaning utensils

HHID HHID F.S. HHIDFS Administration Date Evntdate

☐☐☐☐☐☐ ☐ ☐☐ / ☐☐ / ☐☐
MO DAY YR

Room	FLOOR SURFACE: Carpeted	FLOOR SURFACE: Hard Surface	CLEANING METHODS: Last Date and Method of **Carpet Cleaning** (i.e., Professional, Do-It-Yourself, Water, Steam, or Chemical) ***Please specify method used.***	CLEANING METHODS: Last Date and Method of Routine ***Hard Surface*** Cleaning ***Please specify method used.***	Scotch Guard Applied ?	Does anyone frequently occupy the floor of this room (crawling, sleeping, playing, sitting)?
	Carpet	Hardsurf				
Location ☐☐	○ Loop ○ Shag ○ Cut/Pile ○ Loop/Cut ○ Other: Carp-oth ○ R ○ N ○ M ☐☐	○ Concrete ○ Brick ○ Wood ○ Tile ○ Other: Hard-oth ○ R ○ N ○ M ☐☐	Carpdate ☐☐ / ☐☐ / ☐☐ Method: Carpmeth ☐☐	Hard date ☐☐ / ☐☐ / ☐☐ Method: Hardmeth ☐☐	Scotchgd Ⓨ Ⓝ Ⓓ (def.)	Name: Irn-flor IRN#: ☐☐
☐☐	○ Loop ○ Shag ○ Cut/Pile ○ Loop/Cut ○ Other: ○ R ○ N ○ M ☐☐	○ Concrete ○ Brick ○ Wood ○ Tile ○ Other: ○ R ○ N ○ M ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	Ⓨ Ⓝ Ⓓ (def.)	Name: IRN#: ☐☐
☐☐	○ Loop ○ Shag ○ Cut/Pile ○ Loop/Cut ○ Other: ○ R ○ N ○ M ☐☐	○ Concrete ○ Brick ○ Wood ○ Tile ○ Other: ○ R ○ N ○ M ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	Ⓨ Ⓝ Ⓓ (def.)	Name: IRN#: ☐☐
☐☐	○ Loop ○ Shag ○ Cut/Pile ○ Loop/Cut ○ Other: ○ R ○ N ○ M ☐☐	○ Concrete ○ Brick ○ Wood ○ Tile ○ Other: ○ R ○ N ○ M ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	Ⓨ Ⓝ Ⓓ (def.)	Name: IRN#: ☐☐
☐☐	○ Loop ○ Shag ○ Cut/Pile ○ Loop/Cut ○ Other: ○ R ○ N ○ M ☐☐	○ Concrete ○ Brick ○ Wood ○ Tile ○ Other: ○ R ○ N ○ M ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	Ⓨ Ⓝ Ⓓ (def.)	Name: IRN#: ☐☐
☐☐	○ Loop ○ Shag ○ Cut/Pile ○ Loop/Cut ○ Other: ○ R ○ N ○ M ☐☐	○ Concrete ○ Brick ○ Wood ○ Tile ○ Other: ○ R ○ N ○ M ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	☐☐ / ☐☐ / ☐☐ Method: ☐☐	Ⓨ Ⓝ Ⓓ (def.)	Name: IRN#: ☐☐

Data Use Only:	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

PAGE 7

Technic x

Appendix A (Continued). Technician Walk Through

10949

Comments: ______________________________

11. Characteristics of floor surfaces and cleaning utensils *(continued)*

Room	FLOOR SURFACE		CLEANING METHODS			
	Carpeted	Hard Surface	Last Date and Method of ***Carpet Cleaning*** (i.e., Professional, Do-It-Yourself, Water, Steam, or Chemical) ***Please specify method used.***	Last Date and Method of Routine ***Hard Surface*** Cleaning ***Please specify method used.***	Scotch Guard Applied ?	Does anyone frequently occupy the floor of this room (crawling, sleeping, playing, sitting)?
____	○ Loop ○ Other: ____ ○ Shag ○ R ○ Cut/Pile ○ N ○ Loop/Cut ○ M	○ Concrete ○ Other: ____ ○ Brick ○ R ○ Wood ○ N ○ Tile ○ M	/ / Method: ____	/ / Method: ____	Ⓨ Ⓝ Ⓓ (def.)	Name: ____ IRN#:
____	○ Loop ○ Other: ____ ○ Shag ○ R ○ Cut/Pile ○ N ○ Loop/Cut ○ M	○ Concrete ○ Other: ____ ○ Brick ○ R ○ Wood ○ N ○ Tile ○ M	/ / Method: ____	/ / Method: ____	Ⓨ Ⓝ Ⓓ (def.)	Name: ____ IRN#:
____	○ Loop ○ Other: ____ ○ Shag ○ R ○ Cut/Pile ○ N ○ Loop/Cut ○ M	○ Concrete ○ Other: ____ ○ Brick ○ R ○ Wood ○ N ○ Tile ○ M	/ / Method: ____	/ / Method: ____	Ⓨ Ⓝ Ⓓ (def.)	Name: ____ IRN#:
____	○ Loop ○ Other: ____ ○ Shag ○ R ○ Cut/Pile ○ N ○ Loop/Cut ○ M	○ Concrete ○ Other: ____ ○ Brick ○ R ○ Wood ○ N ○ Tile ○ M	/ / Method: ____	/ / Method: ____	Ⓨ Ⓝ Ⓓ (def.)	Name: ____ IRN#:
____	○ Loop ○ Other: ____ ○ Shag ○ R ○ Cut/Pile ○ N ○ Loop/Cut ○ M	○ Concrete ○ Other: ____ ○ Brick ○ R ○ Wood ○ N ○ Tile ○ M	/ / Method: ____	/ / Method: ____	Ⓨ Ⓝ Ⓓ (def.)	Name: ____ IRN#:
____	○ Loop ○ Other: ____ ○ Shag ○ R ○ Cut/Pile ○ N ○ Loop/Cut ○ M	○ Concrete ○ Other: ____ ○ Brick ○ R ○ Wood ○ N ○ Tile ○ M	/ / Method: ____	/ / Method: ____	Ⓨ Ⓝ Ⓓ (def.)	Name: ____ IRN#:

Data Use Only:	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○